



Bachelor of Arts and Sciences in Social Data Science [BASc(SDS)] A203









WELCOME!





Why Faculty of Education, HKU?

THE World University Rankings by Subject:

• World Number 5 (2023)

QS University Subject Rankings:

• World Number 8 (2022)



Times Higher Education		Home	News	Rankings	Jobs	Study abroad	Events	Resource	S	Solutions		
Rankings 🧹	act Rankings	By subject	China	Subject Ratings	Japan U	Jniversity Rankings	US College	Rankings	News	About THE rankings	Q	0
Show me	universit	ties best	for o	verall 🗸	in any	y country / re	gion 🔹	 offer 	ing a	any subject 🗸		

Or, find specific universities **by name**

RANKING		SCORES				
Rank 🌲	Name Country/Region	\$	No. of FTE Students	No. of students per staff 	International Students	Female:Male Ratio
1	Stanford Univer ♥United States	sity	16,164	7.1	24%	46 : 54
2	University of Ca Vunited States	lifornia, Berkeley	40,921	18.4	24%	52 : 48
3	Harvard Univers	sity	21,887	9.6	25%	50 : 50
4	University of Ca Vunited Kingdor	_	20,185	11.3	39%	47 : 53
5	University of Ho	ong Kong	18,087	18.2	43%	54 : 46
6	University of Ox Vinited Kingdor		20,967	10.6	42%	48 : 52

Read more about the World University Rankings 2023 by subject: education

STUDENT INSIGHTS

Best universities for education degrees

What can you do with an education degree?

ACADEMIC INSIGHTS

World University Rankings by Subject 2023: results announced

METHODOLOGY:

World University Rankings 2023 by subject: education methodology

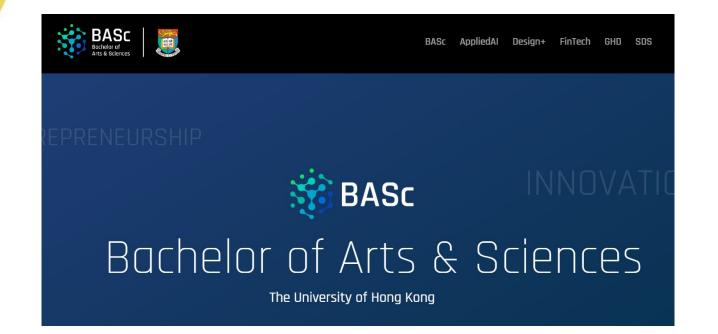




The University of Hong Kong

QS TO	OPUNIVERSITIES	; R	RANKINGS	DISCOVER	EVENTS	PREPARE	APPLY	CAREERS	COMMUNITY	Q	LOGIN	SIGN UP
	4	S DRONTO	University o © Toronto, Can:				89.9					
	5 St.	anford	Stanford Ur Ø Stanford, Uni				89.8					
	6		University o © Cambridge, U	of Cambridge Inited Kingdom			88.9					
	7 🖪	erkeley	University o (UCB) © Berkeley, Uni	of California, Be ted States	rkeley		85.8					
	8		The Univers	sity of Hong Ko ar	ng		84.4					
		DLUMBIA IVERSITY	Columbia U [®] New York Cit	niversity y, United States			83.5					
	10 U	ICLA	University of (UCLA) © Los Angeles, I	of California, Lo United States	s Angeles		83.1					





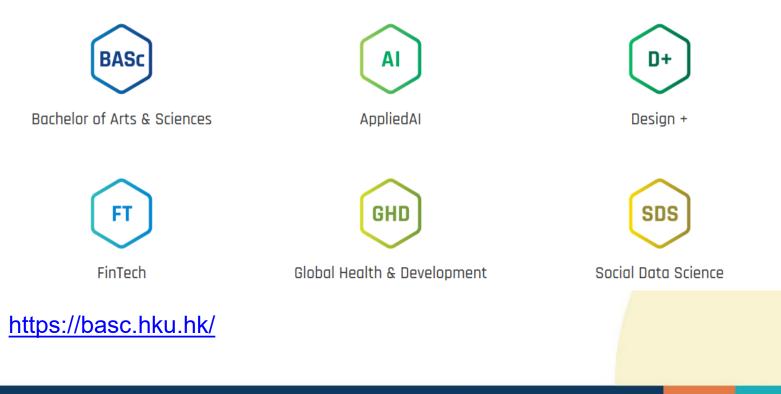
The **Bachelor of Arts & Sciences** degrees, involving all ten faculties, are aimed at nurturing **globally-minded** thinkers and leaders able to leverage their **interdisciplinary** knowledge and skills to address the contemporary and future challenges of our increasingly complex world.







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About the Faculty

News and Events

Programmes Re

Research I

Knowledge Exchange Giving to the Faculty

Programme Overview and Aims



Social

Data Science

Enquiries Information

Application & Admissions

L +852 3917 5413

🞽 bascsds@hku.hk

Academic Matters Contact: Dr Shihui Feng (Acting Programme Director)

L +852 2859 1956

<mark>≥ shihuife@hku.hk</mark>

Programme Pamphlet

https://web.edu.hku.hk/programme/bsds

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SDS



BASc

Arts & Sciences

Bachelor of

Why BASc(SDS)?

- Our rapidly changing society is now driven by **digital data**, and our decision-making is often situated in social contexts and influenced by societal, economic, political and technological factors.
- Social Data Science aims to drive and catalyse new ways of thinking when analysing and applying **data** in the context of the **social sciences**.
- The course takes an **interdisciplinary** approach, integrating information science, computer science, mathematics, statistics, and social sciences to address social issues and societal challenges.



Why BASc(SDS) so special?

- By bringing together different disciplines from the Faculties of **Education**, **Science and Social Sciences**, we are positioning the BASc(SDS) as a senior year entry programme for sub-degree holders.
- Social data science is an area having strong demand in the twenty-first century and it is expected to grow globally and locally across settings.



Demand for graduates in social data science

- Data scientist roles have grown over 650% since 2012, creating 11.5M jobs by 2026, according to the U.S. Bureau of Labor Statistics.
- The demand for data science platform solution and data scientists is expected to grow faster in Asia due to its economic prosperity and advanced technological infrastructure, in particular in dealing with new forms of data with a focus on social, economic, and political aspects.
- Local demand: the importance of data technology, data analytics, and data services as stipulated in the Chief Executive's 2021 Policy Address to develop Hong Kong as an International Innovation and Technology Hub.



Upon graduation of this programme, students will be able to:

- Identify social impact and decision-making process based on the digital data and information
- Demonstrate skills and knowledge in data science and computation through operating with tools and techniques for analysing, visualising, and modelling data
- Synthesise interdisciplinary knowledge and skills in social computation and statistical tools for analysis/analytics to solve real world problems
- Build awareness of social informatics and data science in research and identify controversies and initiatives in the region and the globe
- Apply the design principles and emerging methodologies with information technology from the social informatics perspectives in solving social challenges
- Design basic solutions in addressing social, economic or political inquiries and challenges



Programme features

- <u>Exchange Programme</u>* To foster students' international understanding, the programme encourages them to study overseas in well-established universities through academic exchange.
- <u>**Partnerships with Industry</u>** Students will apply what they learn in their academic studies in real-life situations by working on social data science related projects through internship experience in a selected organisation.</u>
- Final Year Project (FYP) Students will apply a wide range of research methods and skills in a social data science project to complete a significant piece of work under supervision.

* Overseas trips and exchange opportunities may be affected because of the ongoing COVID-19 pandemic situation



BASc(SDS) senior year programme

There is no Year 1 or Year 2 admission. Successful applicants will be admitted directly to Year 3 of this four-year programme.

	Total
Major in SDS	72
Common Core Courses (in 2 different Areas of Inquiry)	12
English Language Enhancement	6
Free Electives	30
Total	120



72-credit Major in Social Data Science

- Core courses (54 credits)
- □ Advanced Elective Courses (18 credits; choose 6 credits from each Faculty)



Core Courses (54 credits)

Introductory courses (24 credits)

- □ Social data science foundations
- □ Social computing: Methods and applications
- □ Data structure and algorithm
- □ Introduction to statistics

Advanced courses (18 credits)

- Data warehousing and data mining
- □ Application of big data analytics in social sciences
- □ Introduction to R/Python programming and elementary data analysis

Capstone courses (12 credits)

- □ Internship
- Project



Advanced Elective Courses (18 credits)

Students must choose one course from each of the Faculties of Education, Science and Social Sciences

Faculty of Education

BSIM4020 Information society issues and policy BSIM4024 Fundamentals of object-oriented programming MLIM6319 Information behavior MLIM7350 Data curation

Faculty of Social Sciences

GEOG2152 Health and medical geography GEOG3417 Health, wellbeing, place and GIS POLI3128 The political economy of international development POLI3131 In search of good policy: an introduction to policy evaluation PSYC2071 Judgements and decision making SOCI2080 Media and culture in modern societies SOWK2131 Behavioural economics for social change

Faculty of Science

STAT2605 Demographic and socio-economic statistics STAT3612 Statistical machine learning STAT3613 Marketing analytics STAT3622 Data visualization STAT4609 Big data analytics



Partnerships with Industry

- Many **industry experts** participate in our programme as advisors, co-lecturers, and guest speakers.
- Students will apply what they learn in their academic studies in real-life situations by working on social data science related projects through **internship experience** in a selected organisation.
- The course provides opportunities for the application of social data science **knowledge and techniques** to practical situations, such as marketing, corporate setting, consulting, health care, financial services, and retail and consumer services.



What jobs does this degree feed into?

Potential graduates in this programme will be qualified to work in different fields. Industries with high demand for knowledge and skills of social data science include:

- Innovative and information technologies
- Marketing, financial services and consulting
- Health care, academia and education
- Government, public services and NGOs



Admissions requirements

- Local graduates of recognised full-time Associate Degree (AD) or Higher Diploma (HD) programmes of at least two years in duration from community colleges in Hong Kong in relevant disciplines, such as Data Science and Analytics, Engineering, Computer Science, Information Technology, Statistics, Applied Science, Social Sciences.
- **Final-year local students** studying such programmes may also apply and their applications will be considered subject to their successful completion of the programme by August 2023.
- Intake quota for 2023-24: 30



Admissions requirements

- **IELTS 7** or equivalent (*strongly encouraged to take multiple attempts until achieving good score*)
- **HKDSE Mathematics Level 3**
- Good GPA
- Leadership and life experience could be considered
 → 1-2 pages summary preferred
- Prefer applicants placing BASc(SDS) as 1st choice
- Shortlisted applicants will be invited to an interview in February/March 2023



Application

- Apply through Admissions to Senior Year Places (Direct Admissions Scheme)
- Programme code: A203
- Apply by **noon, November 16, 2022** (Main round)
- Late application is accepted by **<u>noon, August 24, 2023</u>**
- Places are being filled all the time, you are advised to apply for admissions <u>as early as possible</u>.
- Admissions details <u>https://admissions.hku.hk/apply/hong-kong-sub-degrees</u>
- Programme website <u>https://web.edu.hku.hk/programme/bsds</u>





Hope to see you soon!



