Faculty of Social Science
The Chinese University of Hong Kong

Data Science and Policy Studies
JUPAS Code: 4893
The BSSc in Data Science and Policy Studies (DSPS) Programme offers students the opportunity to tackle policy challenges using quantitative methods and advanced analytics for building a better society. We equip students with the state-of-art knowledge and skills to become professional analysts and decision-makers on developing, delivering and communicating data-driven solutions to address policy problems for the betterment of society.

The DSPS Programme is suitable for students who have a dual interest in both areas of data science and policy studies, and aspire to transform knowledge and technologies to impactful changes in society. Students will learn how to put the most advanced data analytics skills and policy design strategies into practice from leading scholars and practitioners, giving them a fruitful and hands-on understanding of data-driven policymaking methods.

### Curriculum Structure

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The DSPS Programme offers a comprehensive and balanced curriculum on fundamental aspects of data, statistical and machine learning knowledge, policy design and analytics techniques, as well as hands-on experience with data science software and visualization tools. The final-year capstone project offers students the opportunity to integrate and apply what they have learned in the Programme to address real-world policy issues.

**Programme Structure**

The DSPS Programme also provides a wide range of elective courses on data science and policy studies, social science, technology and statistics to allow students to tailor their study schedule to personal interests, as well as to declare a minor once they fulfill the relevant programme requirements.

**ELECTIVE COURSES**

- Collaborative Governance in a Global Context
- Data Science and Regulation
- Selected Topics in Data Science and Policy Studies I, II, III, IV
- Advanced Applications of Data Science in Public Policy
- Seminar of Policy and ICT Studies
- Social Innovation and Social Change for Good
- Migration, Entrepreneurship and Policy Reflection on Global Citizenship

**CORE COURSES**

- Foundation of Data Science
- Statistical Analysis for Policy Decision
- Data Analytics for Public Policy I, II
- Research Methods for Policy Studies
- Internship
- Graduation Capstone Project I, II

- Introduction to Policy Sciences
- Data Science and Public Policy
- Policy Analysis and Design Thinking
- Managing Technology and Policy Innovation
- Policy Leadership and Entrepreneurship Workshop

* Please refer to DSPS website for details
In this increasingly interconnected world, the DSPS Programme is both the destination and take-off runway of students. We have lined up with some top institutions in Europe and Australasia for students to explore and broaden their horizons. Our partners are Technical University of Munich (TUM), a top Germany university in the heart of the European continent and University of Auckland, the best university in New Zealand.

Students graduate with the expertise to be data-driven decision-makers, policy leaders, project managers, and research analysts in both public and private organizations, including but not limited to:

- Understand policy issues with insights and intelligence by integrating theory and practice
- Design data-driven and evidence-based solutions to address policy problems
- Apply statistical and computational methods to analyze data to provide actionable insights
- Present and visualize results in a clear and professional manner to enhance policy decisions

Besides textbook knowledge, we equally value hands-on experience, if not more. The DSPS Programme offers internship opportunities in the public, private, or non-profit sectors. To help students integrate their academic learning with real-world experience, the DSPS Programme invites experienced and professional mentors from different sectors and industries to serve as student mentors. Our mentors, who come from both public and private organizations such as The Hong Kong Jockey Club, Policy Innovation and Co-ordination Office of The HKSARG, Niche Global Fintech, Civic Exchange, New Life Psychiatric Rehabilitation Association, etc., will provide students with practical advice and guidance in the transition from university to working world and society after graduation.

DSPS students graduate with the expertise to be data-driven decision-makers, policy leaders, project managers, and research analysts in both public and private organizations, including but not limited to:

- Government
- Think tanks
- Consulting firms
- Non-government organizations
- Startups
- Multinational corporations
- Science and technology companies
- Nonprofit advocacy organizations
Team DSPS is led by a team of prominent scholars and experienced teachers, including Dean of Social Science and department heads, from an interdisciplinary background and with affiliation/experience in different sectors and organizations. With one of the smallest student-to-teacher ratios among all programmes, our teachers work closely with students in pursuit of their academic and career goals.

Our Team

Management and Teaching Staff

Dean
Prof. CHIU Chi-Yue
Faculty of Social Science

Programme Director
Prof. Wilson WONG
BSSc Programme in Data Science and Policy Studies

Lecturer
Dr. CHAN Wai Yin
BSSc Programme in Data Science and Policy Studies

Assistant Professor
Prof. CHU May
Department of Government and Public Administration

Associate Professor
Prof. James CHENG
Department of Computer Science and Engineering

Associate Professor
Prof. WEI Ying Ying
Department of Statistics

Associate Professor
Prof. Annie TAM
Faculty of Social Science

Honorary Professor
Prof. Sylvia HE
Department of Geography and Resource Management

Lecturer
Dr. HO Chi Pui
BSSc Programme in Data Science and Policy Studies

Professor and Chairman
Dr. Steven NGAI
Department of Social Work

Professor and Chairman
Prof. Annie TAM
Department of Sociology

Professor and Chairman
Prof. Tony TAM
Department of Economics

Senior Lecturer
Dr. Vinci CHOW
Department of Economics
**Admission Requirements**

**JUPAS Applicants (HKDSE)**

Level 3 in English Language, Chinese Language and Mathematics (Compulsory Part); Level 2 in Liberal Studies; and Level 3 in two Elective subjects OR one Elective subject and Mathematics Extended Part Module I or Module II

**Non-JUPAS Applicants**

Applicants seeking undergraduate admission on the basis of qualifications other than the HKDSE may apply via Non-JUPAS (local) or International Students Admission Scheme. For details, please visit the website of the Office of Admissions and Financial Aid (admission.cuhk.edu.hk).
Contact Us

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The Chinese University of Hong Kong
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