

**City University of Hong Kong
Course Syllabus**

**offered by School of Data Science
with effect from Semester A 2024/25**

Part I Course Overview

Course Title:	Dissertation
Course Code:	SDSC6006
Course Duration:	Two Consecutive Semesters
Credit Units:	6
Level:	P6
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: <i>(Course Code and Title)</i>	Nil
Precursors: <i>(Course Code and Title)</i>	Nil
Equivalent Courses: <i>(Course Code and Title)</i>	Nil
Exclusive Courses: <i>(Course Code and Title)</i>	Nil

Part II Course Details

1. Abstract

This course aims to develop a student's expertise in his/her chosen subject area through application of data science knowledge and techniques, and demonstrate a student's ability to present and organize subject knowledge scholarly in an independent research.

2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs	Weighting (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	A2	A3
1.	Conduct independent study for problem solving and solution seeking.	20%	✓	✓	
2.	Apply data science knowledge and techniques of diverse subjects in formulating and analyzing practical problems.	20%	✓	✓	
3.	Assess critically appropriateness of research methodology and strategies in approaching problems.	20%	✓	✓	
4.	Discuss insights and novel findings in conducted data analytics studies.	20%	✓		✓
5.	Prepare a coherent dissertation with effective presentation of literature and analysis of results.	20%		✓	✓
		100%			

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

3. Learning and Teaching Activities (LTAs)

(LTAs designed to facilitate students' achievement of the CILOs.)

LTA	Brief Description	CILO No.					Hours/week (if applicable)
		1	2	3	4	5	
Consultation	Students will meet with their chosen supervisors to identify appropriate project topics and make research plans.	✓	✓	✓	✓		13 hours/sem
Individual works	Students will conduct the selected research project under the guidance of their supervisor.		✓	✓	✓	✓	26 hours/sem

4. Assessment Tasks/Activities (ATs)

(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CILO No.					Weighting	Remarks
	1	2	3	4	5		
Continuous Assessment: <u>100</u> %							
<u>Project Proposal</u>		✓	✓			20%	
<u>Project Milestone Meetings</u>	✓	✓	✓	✓		20%	
<u>Dissertation</u>	✓	✓	✓	✓	✓	40%	
<u>Oral Presentation</u>					✓	20%	
Examination: <u>0</u> % (duration: _____, if applicable)							
						100%	

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Applicable to students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
1. Project Proposal	20%	High	Significant	Moderate	Basic	Not even reaching marginal levels
2. Project Milestone Meetings	20%	High	Significant	Moderate	Basic	Not even reaching marginal levels
3. Dissertation	40%	High	Significant	Moderate	Basic	Not even reaching marginal levels
4. Oral Presentation	20%	High	Significant	Moderate	Basic	Not even reaching marginal levels

Applicable to students admitted from Semester A 2022/23 to Summer Term 2024

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B)	Marginal (B-, C+, C)	Failure (F)
1. Project Proposal	20%	High	Moderate	Basic	Not even reaching marginal levels
2. Project Milestone Meetings	20%	High	Moderate	Basic	Not even reaching marginal levels
3. Dissertation	40%	High	Moderate	Basic	Not even reaching marginal levels
4. Oral Presentation	20%	High	Moderate	Basic	Not even reaching marginal levels

Part III Other Information (more details can be provided separately in the teaching plan)

1. Keyword Syllabus

(An indication of the key topics of the course.)

No formal syllabus. Students will be required to undertake individually supervised research and dissertation preparation.

2. Reading List

2.1 Compulsory Readings

(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

NIL

2.2 Additional Readings

(Additional references for students to learn to expand their knowledge about the subject.)

NIL