

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

Master of Science in Artificial Intelligence for Sciences (MSAIFS)

理學碩士（人工智能與科學）



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Yeung Kin Man Academic Building



Student Handbook
2026-2027

(Please note that the information given in this Handbook is accurate at the time of printing in October 2026. Changes to the information may be made from time to time without prior notification.)

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Master of Science in Artificial Intelligence for Sciences (MSAIFS)

Student Handbook (2026-2027)

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October 2026

1. PROGRAMME AIMS

- Offer rigorous artificial intelligence (AI) foundational training to solidify and enrich the knowledge of students in AI.
- Enable interdisciplinary knowledge development centered on AI to support students in gaining a comprehensive understanding of both AI and domain principles across various fields.
- Prepare graduates to undertake research and advanced innovative development work in industry with a focus on cultivating the skills needed to develop novel AI algorithms, enhance existing technologies, and apply these innovations to address challenges in sciences.

Programme Intended Learning Outcomes (PILOs):

Upon successful completion of this Programme, students should be able to:

1. Understand theoretical foundations of contemporary AI techniques and their applications in sciences;
2. Apply knowledge of AI to solve problems in various fields;
3. Comprehend and utilize AI and computational tools to discover new knowledge and solve real-world problems in sciences;
4. Recognize the need for and engage in continuous learning about emerging and AI techniques and their applications in sciences;
5. Communicate ideas and findings effectively in written, oral, and visual forms and work in diverse, interdisciplinary team environments.

2. PROGRAMME OF STUDY

Programme Requirement

Students are required to get 30 credit units (CUs) to complete the programme. Students must choose one focused track and complete 15 CUs of electives from that track. After determining the focused track, selecting electives from other tracks is not permitted.

Courses in the programme are categorized into core courses and elective courses. To complete the programme, students are required to take

- 15 CUs of the core courses, and
- 15 CUs of the elective courses.

The programme has four focused tracks, each comprising its own pool of electives:

Track 1: AI for Scientific Discovery

Track 2: AI for Digital Medicine

Track 3: AI for Sustainability

Track 4: Applied AI

Upon enrolment, students must follow the track offered and complete 15 CUs of electives from the track they belong to.

Students can participate in experiential learning in the focused track by taking either a two-semester Dissertation course (6 CUs) in the first year in Semester B and Summer Term, or an Internship course (3 CUs) in the Summer Term of the first year. It is the student's responsibility to find a suitable supervisor for both the dissertation course and the internship course.

The curriculum is shown below:

Core Courses (15 CUs)

Course Code	Course Title	Level	Credit Units
DSC5001	Statistical Machine Learning I	P5	3
DSC6008	Design of Experiments	P6	3
DSC6020	Artificial Intelligence for Scientific Knowledge Discovery	P6	3
DSC6021	Generative Artificial Intelligence	P6	3
DSC6022	Research Projects for Artificial Intelligence for Sciences	P6	3

Elective Courses (15 CUs)

Selection guidelines:

The normal study period will be 1 year to complete 30 CUs in full-time mode. Students have the option to complete 27 CUs in Semester A and Semester B, and take an Internship course (3 CUs) in the Summer Term.

Dissertation and Internship Courses

Course Code	Course Title	Level	Credit Units
DSC6023	Internship in Artificial Intelligence for Sciences	P6	3
DSC6024*	Dissertation for Artificial Intelligence for Sciences	P6	6

* The dissertation supervisor can be from any participating academic units.

Track 1. AI for Scientific Discovery

Course Code	Course Title	Level	Credit Units
CHEM6134	AI for Chemistry	P6	3
PHY5503	Introduction to Quantum Technology	P5	3
PHY5504	Data Acquisition & Processing Skills for Physicists I	P5	3
PHY5505	Data Acquisition & Processing Skills for Physicists II	P5	3
PHY5506	Data Analysis and Modelling in Physics	P5	3
PHY6502	Advanced Computational Methods for Simulation and Modelling	P6	3
PHY6603	Introduction to Quantum Information	P6	3
PHY6604	Machine Learning in Physics	P6	3
MSE5301*	Instrumentation for Materials Characterization	P5	3
MSE5303*	Structure and Deformation of Materials	P5	3
MSE6181*	Photonics in Nanomaterial Systems and Devices	P6	3

MSE6183*	Computational Methods for Materials Science	P6	3
MSE6265*	Quantum Theory of Semiconductors	P6	3
DSC6025	AI for Materials Science	P6	3

*Subject to approval.

Track 2. AI for Digital Medicine

Course Code	Course Title	Level	Credit Units
BMS5001	Common Diseases and Genomic Medicine	P5	3
BMS5002	Infectious Disease Management	P5	3
BMS5007	Pharmacology Principles in Drug Discovery and Development	P5	3
BMS5008	Fundamental and Advanced Multi-omics Research	P5	3
BMS5009	Ageing and the Science of Human Longevity	P5	3
BMS5010	Artificial Intelligence in Health Science Research and Management	P5	3
BMS5011	Wearable Technologies and Digital Medicine	P5	3
BMS5012	Nutrition Science and Stress Management	P5	3
BMS5013	Storytelling of Health Science Data with Analysis and Visualization	P5	3
BMS8111	Immunology and Infectious Diseases	P8	3
BMS8112	Viruses, Immunity and Ageing	P8	3

Track 3. AI for Sustainability

Course Code	Course Title	Level	Credit Units
SEE5201	Air Pollution and Atmospheric Chemistry	P5	3
SEE5202	Climate Change: Science, Adaptation and Mitigation	P5	3
SEE5211	Data Analysis in Environmental Applications	P5	3
SEE5212	Environmental Pollution: Theories, Measurement and Mitigation	P5	3
SEE6101	Energy Generation and Storage Systems	P6	3
SEE6103	Energy Conversion: Theory and Methodology	P6	3
SEE6104	Energy Conservation and Audit	P6	3
SEE6115	Carbon Audit and Management	P6	3
SEE6118	Emerging Energy Technologies	P6	3
SEE6122	Advanced Thermosciences for Energy Engineering	P6	3
SEE6124	Fuel Processing	P6	3
SEE6125	Carbon Capture Use and Storage	P6	3
SEE6212	Environmental Modelling	P6	3

SEE6213	Wastewater Engineering and Water Quality Assessment	P6	3
SEE6214	Solid Waste Treatment and Management	P6	3
SEE6224	Environmental Engineering Science	P6	3
SEE6225	Environmental Assessment	P6	3

Track 4. Applied AI

Course Code	Course Title	Level	Credit Units
DSC6004	Topics of Artificial Intelligence for Smart Cities	P6	3
DSC6019	Embodied AI and Applications	P6	3
DSC6026	Social Network Analysis	P6	3
DSC6027	Topics of AI for Computational Social Sciences	P6	3
DSC6028	Medical Image Analysis	P6	3
DSC6029	Topics of Artificial Intelligence for Biomedical Studies	P6	3
DSC6030	Quantum Machine Learning	P6	3

Remarks: Programme electives will be offered subject to the availability of resources and sufficient enrolment.

Additional Information

- All the dissertation and internship courses are mutually exclusive.
- All the core courses are offered in Semester A except the research project course (DSC6022).
- Students can take the Internship course only in the Summer Term of the first year.
- Students enrolled in the Internship course cannot register for any other courses during that term.

3. **ASSESSMENT AND AWARD CLASSIFICATIONS**

Students should observe the University's related regulations and guidelines on assessment at all times. More information can be available by referring to the websites maintained by Chow Yei Ching School of Graduate Studies.

<https://www.cityu.edu.hk/pvdp/qac/quality-assurance-policies-and-guidelines/university-assessment-policy/index.htm>

Commencing from the 2024/25 intake, students will be awarded the following classifications based on their CGPA attained upon completion of all appropriate graduation requirements.

Master's Degree	CGPA
Distinction	3.5 or above
Credit	3.20 – 3.49
Pass	2.00 – 3.19

4. **TUITION FEES AND PROGRAMME DURATION**

Tuition fees: HK\$11,200 per credit (local students)
HK\$12,800 per credit (non-local students)

Credits required: 30 CUs

Duration of study:

	Years (full-time)	Years (part-time/combined mode)
Normal period of study	1	2
Maximum period of study	2.5	5

5. **CLASS SCHEDULE**

Weekday evenings and Saturday afternoons (plus weekday daytime sessions if necessary).

6. **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 websites maintained by the Chow Yei Ching School of Graduate Studies.

<https://www.cityu.edu.hk/sgs/student/TPg/regulations>

7. 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 of 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 2026** in order to access their course grades.

<https://www.cityu.edu.hk/ah/studentlan/Quiz/intro>

8. COMMUNICATIONS

In general, students are encouraged to discuss freely any of their problems with the Programme Leaders, Year Tutors, Course Leaders and Instructors.

Specifically, the following communication channels between students and the department are recommended:

- i) Students who are having academic difficulties with a course should speak directly to the Course Leader or Instructors of that course.
- ii) A student who wishes to discuss issues on a particular part of the programme should speak to the Year Tutor.
- iii) A student who wishes to discuss the overall organisation of the programme should speak to the Programme Leader or his/her deputy.
- iv) A formal consultative process between students and staff exists in the department in the form of a Joint Staff & Student Consultative Committee (JSSCC). One student from each year will be elected to sit in the JSSCC Committee.
- v) One part-time student from each year of the programme and two full-time students will be elected to sit in the Programme Committee.

9. PROGRAMME LEADER AND YEAR TUTORS

<u>Position</u>	<u>Staff Name</u>	<u>Tel.</u>	<u>Email</u>
Programme Leader	Prof. Li ZENG	3442 4381	lizeng@cityu.edu.hk
Deputy Programme Leader	Prof. Ye WEI	3442 4513	ye.wei@cityu.edu.hk
FT Year Tutor			
2026-2027 Cohort	Prof. Qing KE	3442 5243	qingke@cityu.edu.hk
PT Year Tutor			
2026-2027 Cohort	Prof. Hao PENG	3442 2587	haopeng@cityu.edu.hk
Dissertation Tutor	Prof. Ye WEI	3442 4513	ye.wei@cityu.edu.hk

10. INFORMATION TO NEW STUDENTS

10.1 How to access your Personal Class Schedule

- i) Go to <https://www.cityu.edu.hk>, then click “Quick Links” at the top and select “AIMS”.
- ii) Log in to AIMS with your EID and password.
- iii) Click “Course Registration” menu.
- iv) Click “Main Menu for Web Add/drop”.
- v) Click “My Detail Schedule” and select the term to display details of your class schedule.

10.2 How to get Instructors’ handouts through Canvas

- i) Go to <https://www.cityu.edu.hk>, then click “Quick Links” at the top and select “Canvas”.
- ii) Log in to Canvas with your EID and password.
- iii) Click “Courses” on the left menu.

10.3 How to check Programme Requirements and Course Syllabus

Go to the CityU home page and select “Programme and Course Catalogue” under “Academics”, and then click “Taught Postgraduate Programmes”.

10.4 Course Registration for Semester A, 2026-2027

For Semester A, 2026-2027, students will be pre-registered in required courses and programme electives in most cases if possible.

- i) The date for the release of your class schedule is **28 July 2026**. 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 offering department. You can submit your application for add/drop of non-web-enabled courses via AIMS.

How to do the Add/Drop:

- Go to <https://www.cityu.edu.hk>, then click “Quick Links” at the top and select “AIMS”.
- Log in to AIMS with your EID and password.
- Click “Course Registration” menu.
- Click “Main Menu for Web Add/drop”.
- Click “Add or Drop Classes”, and you will find your pre-registered course sections under “Current Schedule”.

- iii) Web registration begins on **24 August 2026**, but you need to check your time ticket first from AIMS.
- iv) All add/drops end on **7 September 2026**.
- v) Detailed arrangements on Course Registration for Semester A, 2026-2027 will be posted in **early August 2026**. For details, please refer to the SGS website: <https://www.cityu.edu.hk/sgs/student/tpg/course/reg/guide>.

10.5 How to access your Student Email Account

- i) Go to <https://www.cityu.edu.hk>, then click “Quick Links” at the top and select “Email”.
- ii) On the Email Services home page, click “@my.cityu.edu.hk” under “Student” to go to CityU “M365 Sign-in page”.
- iii) Click “M365 Sign-in page” and log in with your EID and password.
- iv) You can read and compose mail after signing in.

Important note:

The CityU email account is the official means of communications at CityU. Students are responsible for checking their mails regularly and be responsive.

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

10.6 How to check your Course Grade and GPA

- i) Go to <https://www.cityu.edu.hk>, then click “Quick Links” at the top and select “AIMS”.
- ii) Log in to AIMS with your EID and password.
- iii) Click “Student Record” menu.
- iv) Click “My Academic Record”.
- v) Click “Grade Display”.
- vi) Select the programme and click “Go” to check your course grades.

10.7 Credit Transfer

Applications for credit transfer must be made before a semester begins. For Semester A, 2026-2027, the application period is from **13 July to 28 August 2026**. For details, please refer to the SGS website:
<https://www.cityu.edu.hk/sgs/student/TPg/credittransfer>

10.8 Administrative Support from General Office

Normal

Mon to Fri	9:00am - 12:30pm & 2:00pm - 5:30pm
Sat and public holidays	Closed

Inquiry:	3442-7887
Fax:	3442-0515
Email:	ds.go@cityu.edu.hk

Model Study Path for MSAIFS 2026-2027 Entry without Dissertation (1 Year Full-time)

Yr.	Sem.	Courses					CUs
1	A	Core Course (3CUs)	Core Course (3CUs)	Core Course (3CUs)	Core Course (3CUs)	Elective 1 (3CUs)	15
	B	Core Course (3CUs)	Elective 2 (3CUs)	Elective 3 (3CUs)	Elective 4 (3CUs)	Elective 5 (3CUs)	15

Total CUs = 30

1-year Study with Dissertation (Semester B and Summer Term)

Yr.	Sem.	Courses					CUs
1	A	Core Course (3CUs)	Core Course (3CUs)	Core Course (3CUs)	Core Course (3CUs)	Elective 1 (3CUs)	15
	B	Core Course (3CUs)	Elective 2 (3CUs)	Elective 3 (3CUs)	Dissertation-1* (MSAIFS) (3CUs)		12
	S	Dissertation-2* (MSAIFS) (3CUs)					3

Total CUs = 30

** Students who plan to take Dissertation will have to start in Semester B and finish it in Summer Term.*

Model Study Path for MSAIFS 2026-2027 Entry
1-year Study with Internship (Summer Term)

Yr.	Sem.	Courses					CUs
1	A	Core Course (3CUs)	Core Course (3CUs)	Core Course (3CUs)	Core Course (3CUs)	Elective 1 (3CUs)	15
	B	Core Course (3CUs)	Elective 2 (3CUs)	Elective 3 (3CUs)	Elective 4 (3CUs)		12
	S	Internship* (MSAIFS) (3CUs)					3

Total CUs = 30

** Students enrolled in the Internship course cannot register for any other courses during that term.*

Model Study Path for MSAIFS 2026-2027 Entry 2-year Study without Dissertation

Yr.	Sem.	Courses			CUs
1	A	Core Course (3CUs)	Core Course (3CUs)	Elective 1 (3CUs)	9
	B	Elective 2 (3CUs)	Core Course (3CUs)		6
2	A	Core Course (3CUs)	Core Course (3CUs)	Elective 3 (3CUs)	9
	B	Elective 4 (3CUs)	Elective 5 (3CUs)		6

Total CUs = 30
**Model Study Path for MSAIFS 2026-2027 Entry
2-year Study with Dissertation**

Yr.	Sem.	Courses			CUs
1	A	Core Course (3CUs)	Core Course (3CUs)	Core Course (3CUs)	9
	B	Elective 1 (3CUs)	Core Course (3CUs)		6
2	A	Core Course (3CUs)	Dissertation-1* (MSAIFS) (3CUs)	Elective 2 (3CUs)	9
	B	Elective 3 (3CUs)	Dissertation-2* (MSAIFS) (3CUs)		6

Total CUs = 30

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