



香港學術及職業資歷評審局
Hong Kong Council for Accreditation of
Academic & Vocational Qualifications

CONFIDENTIAL

ACCREDITATION REPORT

UOW COLLEGE HONG KONG

LEARNING PROGRAMME ACCREDITATION

**BACHELOR OF MARITIME SERVICES AND
OPERATIONS MANAGEMENT (HONOURS)**

AND

**BACHELOR OF SCIENCE (HONOURS) IN SMART-CITY
TECHNOLOGY AND URBAN INFORMATICS**

SEPTEMBER 2022

Table of Contents

	<u>Page</u>
1. TERMS OF REFERENCE	1
2. HKCAAVQ'S DETERMINATION.....	1
3. INTRODUCTION.....	6
4. PANEL'S DELIBERATIONS	6
4.1 Programme Objectives and Learning Outcomes.....	7
4.2 Learner Admission and Selection.....	10
4.3 Programme Structure and Content.....	14
4.4 Learning, Teaching and Assessment	17
4.5 Programme Leadership and Staffing	19
4.6 Learning, Teaching and Enabling Resources/Services	22
4.7 Programme Approval, Review and Quality Assurance	24
5. IMPORTANT INFORMATION REGARDING THIS ACCREDITATION REPORT	28
 Appendix 1 HKCAAVQ Panel Membership	
 Appendix 2 Graduate Profile of Bachelor of Maritime Services and Operations Management (Honours)	
 Appendix 3 Graduate Profile of Bachelor of Science (Honours) in Smart-City Technology and Urban Informatics	

1. TERMS OF REFERENCE

1.1 Based on the Service Agreement (No.: AA804), the Hong Kong Council for Accreditation of Academic and Vocational Qualifications (HKCAAVQ), in the capacity of the Accreditation Authority as provided for under the Accreditation of Academic and Vocational Qualifications Ordinance (AAVQO) (Cap. 592), was commissioned by UOW College Hong Kong (UOWCHK/the Operator) to conduct Learning Programme Accreditation with the following Terms of Reference:

- (a) To conduct an accreditation test as provided for in the AAVQO to determine whether the Bachelor of Maritime Services and Operations Management (Honours) and Bachelor of Science (Honours) in Smart-City Technology and Urban Informatics of UOWCHK meet the stated objectives and QF standards and can be offered as accredited programmes; and
- (b) To issue to the Operator an accreditation report setting out the results of the determination in relation to (a) by HKCAAVQ.

2. HKCAAVQ'S DETERMINATION

2.1 HKCAAVQ has determined that, subject to the fulfilment of the conditions set out below, the Bachelor of Maritime Services and Operations Management (Honours) (BMSOM) and Bachelor of Science (Honours) in Smart-City Technology and Urban Informatics (BScSCTUI) meet the stated objectives and QF standards at Level 5 and subject to the approval by the Chief Executive in Council, the two Programmes can be offered as accredited programmes with a validity period of five years from 1 September 2023 to 31 August 2028.

2.2 Validity Period

2.2.1 The validity period will, provided the Operator fulfills the pre-conditions to the commencement of validity period as set out in Para. 2.4., commence on the date specified below. Operators may apply to HKCAAVQ to vary the commencement date of the validity period. Applications will be considered on a case-by-case basis.

2.2.2 The maintenance of the accreditation status within the specified validity period is subject to the fulfilment of all requirements set out in Para. 2.4 by the specified deadline.

2.3 The determinations on the two Programmes are specified as follows:

Name of Operator(s)	UOW College Hong Kong 香港伍倫貢學院	
Name of Award Granting Body	UOW College Hong Kong 香港伍倫貢學院	
Title of Learning Programme	Bachelor of Maritime Services and Operations Management (Honours) 航運服務及營運管理學士 (榮譽)	Bachelor of Science (Honours) in Smart-City Technology and Urban Informatics 智慧城市科技與城市信息學 (榮譽)理學學士
Title of Qualification	Bachelor of Maritime Services and Operations Management (Honours) 航運服務及營運管理學士 (榮譽)	Bachelor of Science (Honours) in Smart-City Technology and Urban Informatics 智慧城市科技與城市信息學 (榮譽)理學學士
Primary Area of Study and Training	Business and Management	Engineering and Technology
Sub-area (Primary Area of Study and Training)	Transports and Logistics	Computer Science and Information Technology
Other Area of Study and Training	Not applicable	Not applicable
Sub-area (Other Area of Study and Training)	Not applicable	Not applicable
QF Level	Level 5	Level 5
QF Credits	544	544
Mode(s) of Delivery and Programme Length	Full-time, four years	Full-time, four years
Start Date of Validity Period	1 September 2023	1 September 2023

End Date of Validity Period	31 August 2028	31 August 2028
Number of Enrolment(s)	One enrolment per year	One enrolment per year
Maximum Number of New Students	Year 1: 35 students per year (from the 2023/24 to 2027/28 academic years) Year 2: 10 students per year (from the 2024/25 to 2027/28 academic years) Year 3: 30 students per year (from the 2023/24 to 2027/28 academic years)	Year 1: 35 students per year
Specification of Competency Standards-based Programme	☐ Yes ☒ No	
Address of Teaching Venue	(1) 1st and 2nd Floors of Billionnaire Royale, 83 Sa Po Road, Kowloon City (Kowloon City Campus) (2) 1st and 2nd Floors of Le Billionnaire, 46 Sa Po Road, Kowloon City (Kowloon City Campus)	

2.4 Conditions

Pre-condition (for BMSOM)

- 2.4.1 UOWCHK is to provide a formal and comprehensive contingency plan and timelines for the maritime laboratory to ensure the smooth running of the Programme.

UOWCHK is to provide the plan with a timeline and the approval documents to HKCAAVQ for the fulfilment of the above pre-condition **on or before 31 May 2023** (Para. 4.6.3)

Requirement (for BMSOM and BScSCTUI)

- 2.4.2 UOWCHK is to provide evidence of the establishment of the specialised laboratories with sufficient equipment installed to deliver the lab-based courses for the two Programmes on Tai Wai campus.

UOWCHK is to provide evidence showing the specialised laboratories with sufficient equipment in place to HKCAAVQ for the fulfilment of the above requirement for BMSOM **on or before 31 December 2023** and for BScSCTUI **on or before 30 June 2025** (Para. 4.6.4).

Condition for the Maritime Policy Concentration of BMSOM

Pre-condition

2.4.3 UOWCHK is to conduct a review of the collaboration between UOW Australia and UOWCHK for the Maritime Policy Concentration with respect to the following aspects:

- (a) To develop an institutional policy for the collaboration between UOW Australia and UOWCHK in relation to the delivery of the concentration;
- (b) To produce a policy statement that defines the nature of the collaboration on the concentration between UOW Australia and UOWCHK;
- (c) To develop mechanisms and systems for monitoring the collaboration on the concentration, such as quality assurance processes for courses and concentration, quality of student learning experience and assessment/ grading consistency; and
- (d) To provide a copy of the final agreement to substantiate that the concentration has been formally approved by the two parties for implementation starting from the 2023/24 academic year, including teach out arrangements, appeal systems and the responsibilities of two parties at the course, concentration and programme levels.

For the fulfilment of the above pre-condition, UOWCHK is to report to HKCAAVQ **on or before 31 May 2023** whether it will include the concentration in the BMSOM programme. If affirmative, UOWCHK is to submit a copy of the final agreement together with relevant documentation, including approval records, to demonstrate that proper policies and mechanisms are in place for the delivery of the concentration (Para. 4.7.6).

Requirement

- 2.4.4 UOWCHK is to review and monitor the effectiveness of operation of the Maritime Policy Concentration and students' learning experience on an on-going basis and compile a review report for this particular concentration.

UOWCHK is to submit a review report including annual review findings and follow up actions taken in the first two years of operation together with approval documents to HKCAAVQ for the fulfilment of the above requirement **on or before 31 December 2025** (Para. 4.7.6).

2.5 Recommendations

HKCAAVQ also offers the following recommendations for continuous improvement of the two Programmes.

- 2.5.1 UOWCHK should have full communication with students and staff regarding prerequisite and precursor courses. It should provide them with guidelines and support for a clearer decision-making process as well as the background to the curriculum and the logical progression of students during the course of the two Programmes. (Para. 4.3.7).
- 2.5.2 UOWCHK should develop and implement more industry-linked staff development strategies to enhance teaching staff's industrial knowledge in the relevant disciplines in smart-city technology and the maritime field (Para. 4.5.7).
- 2.6 HKCAAVQ will subsequently satisfy itself whether the Operator remains competent to achieve the relevant objectives and the Programme continues to meet the standard to achieve the relevant objectives as claimed by the Operator by reference to, amongst other things, the Operator's fulfilment of any conditions and compliance with any restrictions stipulated in this Accreditation Report. For the avoidance of doubt, maintenance of accreditation status is subject to fulfilment of any condition and compliance with any restriction stipulated in this Accreditation Report.

3. INTRODUCTION

- 3.1 UOW College Hong Kong (UOWCHK/ the Operator) was formerly known as the Community College of City University (CCCU). UOWCHK is a company limited by guarantee registered under the Companies Ordinance (Cap. 622). In June 2019, UOWCHK was registered as an approved post-secondary college with degree-granting status under the Post Secondary Colleges Ordinance (Cap. 320). UOWCHK is offering bachelor degree programmes, sub-degree programmes and a Diploma programme.
- 3.2 For this Learning Programme Accreditation exercise, HKCAAVQ formed an expert Panel (Panel Membership in Appendix 1). In view of the Coronavirus Disease-2019 (COVID-19), the site visit was conducted via video-conference from 5 to 8 July 2022 to reduce social contact. HKCAAVQ's *Manual for the Four-stage Quality Assurance Process under the Hong Kong Qualifications Framework* was the guiding document for UOWCHK and the Panel in conducting this accreditation exercise.
- 3.3 In consideration of the track record of UOWCHK established from previous accreditation exercises, the information on the following aspects of the two Programmes was not required in accordance with HKCAAVQ's Differentiation Approach:

Domain of Competence	Aspects
LPA-6 Learning, Teaching and Enabling Resources/Services	Information on student support services
LPA-7 Programme Approval, Review and Quality Assurance	Information on institute-wide QA processes and mechanisms

4. PANEL'S DELIBERATIONS

The following presents the Panel's deliberations on a range of issues pertinent to its major findings. For aspects of the accreditation standards where no observations are made, they are considered to be appropriately addressed by the Operator.

Learning Programme Accreditation

4.1 Programme Objectives and Learning Outcomes

The learning programme must have objectives that address community, education and/or industry needs, with learning outcomes that meet the relevant HKQF standards, for all exit qualifications from the programme.

4.1.1 The Bachelor of Maritime Services and Operations Management (Honours) Programme (BMSOM) is hosted by the Faculty of Business while the Bachelor of Science (Honours) in Smart-City Technology and Urban Informatics Programme (BScSCTUI) is hosted by the Faculty of Science and Technology. UOWCHK provided the Panel with the following information to show the alignment of the components across the two Programmes:

- (a) Mapping of the Programme Objectives (POs) with the intended learning outcomes of the Major (MILOs);
- (b) Mapping of the POs with the Intended Learning Outcomes for General Education (GE ILOs);
- (c) Contribution of Major courses to MILOs;
- (d) Contribution of GE courses to GE ILOs; and
- (e) Mapping of courses against the Generic Level Descriptors (GLDs) at QF Levels 4 and 5.

BMSOM

4.1.2 The BMSOM Programme aims to enable students to acquire multi-faceted knowledge and skills in maritime services and operations management as well as updated technological knowledge essential to developing a maritime professional. The following tables provide the POs and MILOs:

BMSOM - Programme Objectives

PO1	Enable students to acquire and apply multi-faceted business knowledge to business problems in a wide range of contexts;
PO2	Equip students with theoretical and practical knowledge and skills to apply technologies and support innovation in the maritime sector amid a changing business environment;
PO3	Develop students' analytical and critical thinking skills in making managerial decisions for maritime businesses;

PO4	Nurture students' potential and train them to be competent, broad-based, all-rounded and socially responsible professionals to work in the maritime sector; and
PO5	Prepare students for meeting future challenges in a broad range of personal and professional contexts by equipping them with intellectual and practical skills, an understanding of diverse cultures, and knowledge of arts and humanities, science and technology, and social sciences.

BMSOM - Intended Learning Outcomes of the Major (MILOs)

- 4.1.3 Upon completion of the BMSOM Programme, students should be able to achieve the following MILOs:

MILO I	Apply generic business knowledge and skills to business problems and formulate evidence-based responses to achieve the goals of local and global business;
MILO II	Design and implement integrated solutions to management problems in maritime services and operations;
MILO III	Analyse and evaluate the major political, socio-cultural, economic, technological and ethical issues affecting the business environment and decisions related to the maritime industries in local, national, regional and international contexts and generate ideas to address those issues;
MILO IV	Apply information technology and quantitative, problem-solving and critical thinking skills to analyse and address maritime management issues; and
MILO V	Use effective communication and interpersonal skills to work as a team member and a responsible professional.

BScSCTUI

- 4.1.4 The BScSCTUI Programme aims to nurture students to become well-versed in the concepts of the smart city and the technologies essential for its implementation. The following tables provide the programme objectives and intended learning outcomes of the Major (MILOs):

BScSCTUI - Programme Objectives

PO1	Equip students with information technology and problem-solving skills in addition to practical knowledge in urban planning and smart city innovations.
PO2	Develop students' ability to leverage emerging technologies and urban informatics to design and customise solutions in urban projects.
PO3	Nurture a workforce with the technological know-how for smart city development.
PO4	Cultivate students' personal integrity, ethical standards, individual values and attitudes, social responsibility and critical and creative thinking skills to meet the challenges of a sustainable digitised liveable city.

BScSCTUI Intended Learning Outcomes of the Major (MILOs)

- 4.1.5 Upon completion of the BScSCTUI Programme, students should be able to achieve the following MILOs:

MILO I	Apply essential computing theories, urban domain knowledge, emerging technologies and urban informatics to smart city development projects.
MILO II	Design and implement technology solutions with urban informatics to enhance public services and address city challenges.
MILO III	Develop smart city solutions integrating technological components, the social context and ethical considerations.
MILO IV	Act professionally, with a sense of integrity, accountability and responsibility.
MILO V	Use effective communication and interpersonal skills in business and technical communities.

General Education Intended Learning Outcomes (GE ILOs)

- 4.1.6 Apart from the MILOs, the Panel noted that the following Intended Learning Outcomes for the General Education component (GE ILOs) are common across all bachelor degree programmes:

GE ILO 1	Apply intellectual and practical skills, including proficiency in written and oral communication, inquiry techniques, critical and creative thinking, quantitative reasoning and problem-solving skills in a broad range of personal and professional contexts.
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GE ILO 2	Achieve global awareness by gaining knowledge of diverse peoples and cultures, and develop the ability to interact with others in culturally diverse settings.
GE ILO 3	Explain the operations of the natural and social world through the study of arts and humanities, science and technology, social sciences and Greater China.
GE ILO 4	Demonstrate the capacity and resourcefulness for lifelong learning and life management for assuming individual and social responsibilities to fulfill the needs of personal and professional lives.

4.1.7 In reviewing the mapping tables provided by UOWCHK, the Panel held the view that the learning outcomes of the two Programmes are in alignment with the programme objectives and meet the standards at the stated QF Levels.

4.1.8 To ascertain the potential market demand for the two Programmes, UOWCHK cited recent policies and reports as examples, one of which being The Policy Address and the *Report on Consultancy Study on Smart City Blueprint for Hong Kong*. It was suggested that there exists a demand for the two Programmes. In addition, data and figures from recruitment advertisements were cited showing job vacancies in relevant fields. UOWCHK surveyed its potential students showing that its students would consider applying for the two Programmes. UOWCHK also conducted employer surveys revealing potential employers' interest in employing graduates of the two Programmes. During the site visit, the external members who met the Panel supported the launch of the two Programmes. Details of education and employment pathways are provided in the Graduate Profile in Appendices 2 and 3.

4.1.9 Overall, the Panel considered that the POs and learning outcomes of the two Programmes are aptly pitched at QF Level 5. After reviewing the information and discussing it with different representatives during the site visit, the Panel considered that the two Programmes can meet the market need by focusing on smart-city technology and maritime operation with a technology emphasis.

4.2 **Learner Admission and Selection**

The minimum admission requirements of the learning programme must be clearly outlined for staff and prospective learners. These requirements and the learner selection processes must be effective

for recruitment of learners with the necessary skills and knowledge to undertake the programme.

- 4.2.1 There are three entry points for BMSOM, namely Year 1, Year 2 and Year 3 while there is a Year 1 entry for BScSCTUI. UOWCHK provided its minimum standard admission requirements for the two Programmes as follows:

Year 1 entry (For the two Programmes)

(a) Hong Kong Diploma of Secondary Education (HKDSE)

Obtain Level 3 in Chinese Language¹ and English Language, Level 2 in Mathematics, Level 2 / “Attained” in Liberal Studies / Citizenship and Social Development², and Level 2 in one Elective Subject or “Attained” in one Applied Learning Subject or Grade E in one Category C subject;

¹Alternative qualifications in Chinese language (For Non-Chinese Speaking Applicants Only)

For non-Chinese speaking applicants who have learnt Chinese Language for less than six years while receiving primary and secondary education. This caters specifically to applicants who have a late start in the learning of Chinese Language (e.g. due to their settlement in Hong Kong well past the entry level) or who have been educated in Hong Kong sporadically; OR have learnt Chinese Language for six years or more in schools, but has been taught an adapted and simpler Chinese Language curriculum not normally applicable to the majority of students in the local schools, the following language qualifications can be accepted as alternative qualifications in Chinese language

- Attained in Applied Learning Chinese (for non-Chinese Speaking students) ApL(C)
- Grade E in GCE (A-Level)
- Grade E in GCE (AS-Level)
- Grade C in GCE (O-Level)
- Grade C / Grade 4 in GCSE
- Grade C / Grade 4 in IGCSE

²Liberal Studies is applicable for 2023 entry while Citizenship and Social Development is applicable from 2024 entry and onwards.

(b) Hong Kong Advanced Level Examination (HKALE)

Pass AS Use of English and AS Chinese Language and Culture plus one AL subject/two AS subjects in HKALE and Level 2 in Chinese

Language and English Language plus passes in three other subjects in HKCEE;

(c) *Alternative Qualifications*

- (i) Qualifications attained from a local international school, such as the GCE Advanced Level if results similar to those listed under paragraph (b) above have been achieved;
- (ii) An international Baccalaureate Diploma with an overall minimum score of 24 over six subjects including 3 subjects at a high level and 3 at standard level, with 12 points or above obtained from subjects at a high level;

Year 2 entry (For BMSOM only)

Holders of an Associate Degree (AD) or a Higher Diploma (HD) in any discipline from a recognised tertiary institution in Hong Kong with a cumulative GPA of 2.0 or above, or equivalent qualifications.

Year 3 entry (For BMSOM only)

Holders of an Associate Degree or a Higher Diploma in a similar or relevant discipline from a recognised tertiary institution in Hong Kong with a cumulative GPA of 2.0 or above, or equivalent qualifications.

- 4.2.2 All applicants who fulfil the minimum entrance requirements to the two Programmes will be interviewed. Admission interview forms for the two Programmes were provided for the Panel's review. Considering the nature of the two Programmes, the Panel considered that Mathematics is important. In the response document to the Panel's initial comments (the response document), the Panel was informed that BMSOM students are required to take *Business Statistics* while BScSCTUI students are required to take foundation mathematics courses and a physics course that can equip them with the mathematical and science background knowledge to facilitate them in undertaking the two Programmes. After reviewing the admission information, the Panel held the view that the minimum admission requirements are comparable to similar local programmes.
- 4.2.3 The Panel noted that mature applicants will be eligible to apply for undergraduate admission to UOWCHK. They must be over the age of 25 by 1 September of the year of admission and must be able to demonstrate aptitude and suitability for the programme for which they are applying. In the response document, UOWCHK confirmed that the maximum number of non-standard admission (including

mature-aged students) for degree programmes will be capped, on a programme basis, at a maximum of 5% of the actual number of new students of the year. The Panel held the view that there is a clear non-standard admission policy.

- 4.2.4 For BMSOM, UOWCHK confirmed in the response document that Year 2 entry will be launched in the 2024/25 academic year onwards while Year 3 entry will start in the 2023/24 academic year. UOWCHK provided examples of AD and HD qualifications of other institutions that would be considered to be acceptable for Year 3 entry. UOWCHK also provided the Panel with *the Guidelines on Assessment of Prior Learning for Admission to Cap 320 Degree Programmes with Advanced Standing*. These guidelines specify the policy and assessment process to govern the advanced standing. The Dean or Associate Dean of the Faculty is responsible for approving applications with advanced standing in accordance with the eligible qualifications approved by the Faculty Board and the recommendations made by the programme management team. The Panel considered that UOWCHK has admission policies and mechanisms in place which govern the consideration of advanced standing.

Maximum Number of New Students

- 4.2.5 UOWCHK proposed the following maximum number of new students for the two Programmes in the coming academic years:

BMSOM

	2023/24	2024/25	2025/26	2026/27	2027/28
Year 1	35	35	35	35	35
Year 2	/	10	10	10	10
Year 3	30	30	30	30	30

BScSCTUI

	2023/24	2024/25	2025/26	2026/27	2027/28
Year 1	35	35	35	35	35

- 4.2.6 UOWCHK explained in the response document that the proposed maximum number of students was based on the availability of resources and estimated market demand in Hong Kong. To substantiate the market need for the two Programmes, UOWCHK cited statistics from the recent market situation. During the site visit, the external members who met the Panel expressed that there is a market need for the two Programmes. Based on the resource plan,

the Panel considered that UOWCHK has the capacity to admit the number of students proposed.

- 4.2.7 In consideration of the above information, the Panel considered that the stipulated minimum admission requirements are clearly outlined and the proposed maximum number of new students per year is acceptable.

4.3 Programme Structure and Content

The structure and content of the learning programme must be up-to-date, coherent, balanced and integrated to facilitate progression in order to enable learners to achieve the stated learning outcomes and to meet the programme objectives.

- 4.3.1 UOWCHK provided the following to illustrate content and structure:

- (a) Structure of College Academic Programmes at Bachelor Degree Level;
- (b) Programme Handbook;
- (c) Curriculum structure;
- (d) Programme Information Record; and
- (e) Course Information Records of Courses in the Major and GE courses that list course aims, course intended learning outcomes, content, assessment, teaching and learning activities of individual courses.

BMSOM

- 4.3.2 The BMSOM Programme is offered in a full-time mode for four years. The Programme consists of three components: General Education, programme core and three concentrations. The total notional learning hours of the Programme is 5,440, representing a total of 544 QF credits. The ratio of contact hours to self-study hours is 1:2, except for an internship, a capstone project and a field trip. The table below illustrates the distribution of types of courses and credits across the components.

Component	Years 1 & 2 Credit Units		Years 3 & 4 Credit Units		No. of Courses	Credit Units		QF Credits
	QF L4	QF L5	QF L4	QF L5		No.	%	
Major courses and Concentration	33	3	-	36	24	72	60	326.4
	-	-	-	12	4	12	10	54.4
General Education								
• English	3	3	-	6	4	12	10	54.4
• Chinese	3	-	-	-	1	3	2.5	13.6
• Contemporary China	-	-	-	3	1	3	2.5	13.6
• Four GE domains	6	-	-	12	6	18	15	81.6
Minor/Free electives	-	-	-	-	-	-	-	-
Total	45	6	0	69	40	120	100	544

4.3.3 The Programme consists of three concentrations: (i) Maritime Technology, (ii) Maritime and Financial Services, and (ii) Maritime Policy. Students are required to select one of the concentrations as a specialisation. In addition, students can choose to undertake internships, capstone projects or business field trips to solidify their knowledge and construct their own areas of competence, according to their interests and career aspirations. The BMSOM programme team also explained that BMSOM aims to obtain professional recognition from the Chartered Institute of Logistics and Transport (CILT) and the Institute of Chartered Shipbrokers (ICS). After reviewing the curriculum structure, the Panel held the view that the curriculum content is appropriate. However, the Panel expressed concern about the delivery of Maritime Policy Concentration (See Para. 4.7.5).

BScSCTUI

4.3.4 The BScSCTUI Programme is offered in a full-time mode for four years. The BScSCTUI Programme consists of three components: (i) Major, (ii) Elective, and (iii) General Education with a minimum 120-credit unit. The total notional learning hours of the Programme is 5,440, representing a total of 544 QF credits. The table below illustrates the distribution of types of courses and credits across the components.

Component	Years 1 & 2 Credit Units		Years 3 & 4 Credit Units		No. of Courses	Credit Units		QF Credits
	QF L4	QF L5	QF L4	QF L5		No.	%	
Specialised courses	39	-	3	30	23	72	60	326.4*
Language Requirement: English	3	3	-	6	4	12	10	54.4
Language Requirement: Chinese	3	-	-	-	1	3	2.5	13.6
Contemporary China	-	-	-	3	1	3	2.5	13.6
GE courses	9	3	-	6	6	18	15	81.6
Electives	-	-	-	12	4	12	10	54.4
Total	54	6	3	57	39	120	100	544

*Capstone Project for Smart City carries 27.2 QF credits.

4.3.5 The major core covers four themes: (i) urban dynamics and growth; (ii) communication and information processing systems; (iii) data management, analysis and applications, and (iv) geographic information systems and remote sensing. The programme team explained that they prioritise the application of technology and plan to apply for accreditation from the Hong Kong Institution of Engineers (HKIE) as a "Computer Science Programme". After discussing with different stakeholders and reviewing the curriculum structure, the Panel considered that the curriculum design and programme content can enable students to achieve the stated learning outcomes and required standards.

4.3.6 Students of the two Programmes are also required to take 12 prescribed GE courses with 36 credit units. Students will take four English courses, one Chinese course, one Contemporary China and six courses from four GE domains: (i) Arts and Humanities, (ii) Science, Technology, Engineering and Mathematics, (iii) Life Management, and (iv) Global Issues. Students must take at least one course from each domain. During the site visit, the programme teams of the two Programmes explained that the cluster of GE courses prescribed and the appropriateness of allocation will be reviewed annually to ensure that GE learning outcomes can be achieved and students can acquire specific knowledge conducive to their major study of the programme. After discussing with the programme teams, the Panel considered the design of GE courses for the two Programmes appropriate.

4.3.7 Nevertheless, the Panel found that the Course Information Records (CIR) state some courses as prerequisites, while they are not offered

in the two Programmes. The programme team representatives of the two Programmes explained that students will be advised to take precursors. In addition, the prescribed courses are designed so that students are able to progress from one course to another. The Panel considered that a prerequisite should be required for some advanced courses, such as capstone projects or advanced courses in Year 3 and 4 of the two Programmes. In addition, it appears that the part-time teaching staff who met with the Panel understood prerequisites, but not precursors. The Panel made the following recommendation:

Recommendation (for the two programmes)

UOWCHK should have full communication with students and staff regarding prerequisite and precursor courses. It should provide them with guidelines and support for a clearer decision-making process as well as the background to the curriculum and the logical progression of students during the course of the two Programmes.

- 4.3.8 Notwithstanding the recommendation, the Panel considered that the programme content of the two Programmes can enable students to achieve the stated learning outcomes and required standards. However, the offering of the Maritime Policy Concentration as part of BMSOM is subject to the pre-condition of having proper policies and mechanisms in place (See Para. 4.7.5).

4.4 Learning, Teaching and Assessment

The learning, teaching and assessment activities designed for the learning programme must be effective in delivering the programme content and assessing the attainment of the intended learning outcomes.

- 4.4.1 The two Programmes employ a variety of learning and teaching methods, such as lectures, tutorials, case studies, discussions, problem-solving exercises, presentations, self-reflection activities and field visits. The maximum number of students in different teaching and learning activities is outlined as follows:

	BMSOM	BScSCTUI
Lecture	100 students	100 students
Tutorial	22-25 students	25 students
Lab/practical session	22-25 students	25 students

4.4.2 The medium of instruction (Mol) of the two Programmes is English except for specific courses in General Education and Generic Skills. The specific learning, teaching and assessment methods are given in the Course Information Records. After reviewing the sample teaching and learning materials and the discussion with the teaching staff during the site visit, the Panel considered that the teaching and learning methods used are appropriate and contribute to the achievement of the Intended Learning Outcomes (ILOs).

4.4.3 In relation to assessments, the Panel was provided with the following information:

- (a) *Academic Regulations for Bachelor Degrees*;
- (b) *Principles and Policies on Assessment for Degree Programmes*;
- (c) Guidelines on Assessment and Moderation of the Faculty of Business and the Faculty of Science and Technology;
- (d) Grade Descriptors for the Terminal Exit Award; and
- (e) Sample assessment papers with respective assessment rubrics and marking schemes.

4.4.4 According to UOWCHK's *Principles and Policies on Assessment*, the Associate Deans of Faculties, Chairs of Assessment Panels and the Chairs of Examination Board are primarily responsible for ensuring the integrity and security of assessment practices and procedures and maintaining standards of courses and programmes. Associate Deans are responsible for ensuring the implementation of assessment policy and procedures and appointing a Programme Leader for each programme and a Course Examiner (CE) for each course.

4.4.5 In addition, an Assessment Panel (AP) would be established to maintain the academic standard of assessment and determine students' final grades in courses. Moderation of assessment tasks and grades will be conducted internally by an internal moderator and externally by the External Academic Advisor (EAA). Associate Deans of Faculties would recommend award classifications to the Examination Board for review and endorsement. The graduation requirements for the two Programmes are as follows:

BMSOM	Students must have satisfactorily completed 120 credit units including 72 from the Major courses and 12 from the selected concentration, have fulfilled the GE requirement, and have achieved a CGPA of 1.70
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	or above.
BScSCTUI	Students must have satisfactorily completed 120 credit units including 84 from the major courses and 36 from the General Education courses, and have achieved a CGPA of 1.70 or above.

- 4.4.6 The two Programmes use a variety of methods to assess students' performance. These methods include, among others, tests, assignments, essays, presentations, examinations, group projects and reports. After reviewing the Course Information Records and sample assessments provided by UOWCHK, the Panel considered that the assessment methods used are appropriate to reflect the learning outcomes at the claimed QF Level.
- 4.4.7 The Panel noted that those students who have successfully passed the required four courses of the Maritime Policy Concentration of BMSOM and graduate from BMSOM will be awarded a Graduate Certificate in Maritime Studies offered by UOW Australia. However, all UOW Australia's qualifications, such as the Graduate Certificate in Maritime Studies, are beyond the scope of this exercise. UOWCHK confirmed this understanding in the response document. If BMSOM is successfully accredited by HKCAAVQ and the offering of Maritime Policy Concentration is approved, UOWCHK will indicate clearly in a programme handbook and all relevant promotional materials, that only the exit award of Bachelor of Maritime Services and Operations Management (Honours) is accredited by HKCAAVQ. No other institutions' awards that the BMSOM Programme leads to are accredited by HKCAAVQ.
- 4.4.8 In summary, the Panel held the view that the learning, teaching activities and assessment are appropriately designed for the delivery of the learning outcomes and programme content.

4.5 Programme Leadership and Staffing

The Operator must have adequate programme leader(s), teaching/training and support staff with the qualities, competence, qualifications and experience necessary for effective programme management, i.e. planning, development, delivery and monitoring of the programme. There must be an adequate staff development scheme and activities to ensure that staff are kept updated for the quality delivery of the programme.

Staffing

- 4.5.1 The Panel noted that the Faculty Dean is the key person to provide academic leadership and assure the effectiveness of the quality assurance mechanism of the programmes offered by the Faculty. A full-time Programme Leader will assist in providing academic leadership for each of the proposed programmes while full-time Course Examiners (CEs) will provide administrative support for individual courses. During the site visit, UOWCHK illustrated, with the *Code of Practice - Teaching*, that the Course Examiner system was clearly documented. The teaching staff also indicated to the Panel that they were clear about the system and how it worked in practice.
- 4.5.2 According to the UOWCHK staffing policy, on average each teaching staff member takes up 14 hours per week in a semester or 28 hours per week per semester for a year. The response document states that around 32% of BMSOM teaching staff will be appointed on a part-time basis while about 20-30% of BScSCTUI teaching staff will also be appointed on a part-time basis. During the site visit, the management explained that the ratio of students to teaching staff was driven by teaching allocation that met the UOWCHK's standards for class size.
- 4.5.3 The Panel noted that the minimum academic qualification requirement for a Teaching Associate and Lecturer/Assistant Lecturer is a master's degree. In addition, post-first degree teaching experience and relevant work experience are required. During the site visit, the Panel was informed that the appointment criteria of a research supervisor are a doctoral degree with teaching and research experience. A ratio is one supervisor to five students. The Panel considered the appointment criteria and the ratio are appropriate.
- 4.5.4 UOWCHK provided the profiles of its existing staff. BMSOM has eight full-time teaching staff while BScSCTUI has nine full-time and one part-time. During the site visit, the Panel reviewed the CVs of teaching staff and the summary of mapping tables regarding teaching allocation for the 2023/24 academic year. The Panel held the view that those teaching staff have relevant qualifications or training in relevant areas. In addition, the Panel noted the staff plan as follows:

BMSOM	The Faculty of Business will primarily recruit an Assistant Professor, who has rich experience in teaching in a maritime related field. Three additional full-time staff members will be employed by the 2026/27 academic year.
BScSCTUI	A new teaching staff for <i>Basic Electronics</i> will be employed in the 2022/23 academic year. In addition, UOWCHK intends to invite the teaching staff in UOW SMART Infrastructure Facility who specialise in smart-city technologies and smart city applications to be guest speakers to support BScSCTUI teaching staff.

- 4.5.5 Based on the above, the Panel considered that the UOWCHK has sufficient and suitable teaching staff to support the first year of operation of the two Programmes.

Staff Development

- 4.5.6 In terms of staff development, the Panel was provided with the following:
- (a) Staff Development Policy;
 - (b) A list of induction / development activities in 2020 and 2021; and
 - (c) Staff development activities planned for the two Programmes in the coming two years.
- 4.5.7 The Panel was provided with the *Principles and Policies of Staff Development*, which delineates the responsibilities, principles and policies for staff development. UOWCHK elaborated on its staff development activities in the response document stating that pedagogical training will be organised for all teaching staff, such as blended learning mode of teaching delivery and use of learning analytics. Teaching staff expressed during the site visit that staff development and training on related subject areas are useful to enhance their industry knowledge in the field. Considering the new discipline and discussing it with different stakeholders, the Panel made the following recommendation:

Recommendation (for the two programmes)

UOWCHK should develop and implement more industry-linked staff development strategies to enhance teaching staff's industrial

knowledge in the relevant disciplines in smart-city technology and the maritime field.

- 4.5.8 Based on the discussion with the representatives of UOWCHK and a review of the information obtained, the Panel considered that the UOWCHK has a staffing plan and staff development activities to support the delivery of the two Programmes.

4.6 **Learning, Teaching and Enabling Resources/Services**

The Operator must be able to provide learning, teaching and enabling resources/services that are appropriate and sufficient for the learning, teaching and assessment activities of the learning programme, regardless of location and mode of delivery.

Financial Resources

- 4.6.1 UOWCHK provided the Panel with the projected income and expenditure for the two Programmes from 2023/24 to 2027/28 academic years. The Panel noted that these financial statements show that the BMSOM Programme would generate a net surplus all through while the BScSCTUI would initially bring a loss but would convert to a net surplus after a few years. During the site visit, the management and programme leaders confirmed that the proposed mechanism to deal with under-enrolment would not affect the contact time of students on the two Programmes. On the basis of the financial information provided, the Panel considered that there are sufficient financial resources for the delivery of the two Programmes.

Physical Resources

- 4.6.2 On physical resources, lists of specialised facilities and equipment for each programme were provided and a presentation of facilities on Kowloon City campus, such as computer laboratories, library services, and Mac Lab was given. UOWCHK also provided details about the facilities on Tai Wai campus, such as lecture theatres and computer laboratories. UOWCHK also conducted a presentation on the floor plans of the two programme specific facilities, namely the maritime laboratory for BMSOM and the engineering laboratory for BScSCTUI.
- 4.6.3 The Panel was informed that UOWCHK plans to operate the two Programmes on the Tai Wai campus once the new campus is ready.

During the site visit, the management representatives assured that the maritime laboratory and the engineering laboratory will be ready on Tai Wai campus in January 2024 at the latest. Considering the importance of the maritime laboratory and Year 3 entry of BMSOM in the 2023/24 academic year, the Panel held the view that there is the need to develop a comprehensive contingency plan and timeline in case of delay to ensure the smooth running of Year 3 BMSOM courses if the maritime laboratory on Tai Wai campus is not ready to support the teaching. Thus, the Panel stipulated the following pre-condition:

Pre-condition (for BMSOM)

UOWCHK is to provide a formal and comprehensive contingency plan and timelines for the maritime laboratory to ensure the smooth running of the Programme.

UOWCHK is to provide the plan with a timeline and the approval documents to HKCAAVQ for the fulfilment of the above pre-condition **on or before 31 May 2023**.

- 4.6.4 Since the two Programmes are new programmes, specialised equipment on Tai Wai campus will be required for the full operation of the two Programmes. The Panel noted the UOWCHK's plan and considered that specialised laboratory facilities on Tai Wai campus are essential to ensure the smooth running of the two Programmes. The Panel therefore stipulated the following requirement:

Requirement (for the two Programmes)

UOWCHK is to provide evidence of the establishment of the specialised laboratories with sufficient equipment installed to deliver the lab-based courses for the two Programmes on Tai Wai campus.

UOWCHK is to provide evidence showing the specialised laboratories with sufficient equipment in place to HKCAAVQ for the fulfilment of the above requirement for BMSOM **on or before 31 December 2023** and for BScSCTUI **on or before 30 June 2025**.

- 4.6.5 In light of the above, the Panel concluded that the teaching, learning and enabling resources in Kowloon City campus are appropriate for student learning. However, considering the importance of the laboratory facilities on Tai Wai campus to ensure the smooth running of the two Programmes, the Panel considered that there is the need

to have a comprehensive plan for BMSOM and evidence showing necessary equipment is in place for the two Programmes.

4.7 Programme Approval, Review and Quality Assurance

The Operator must monitor and review the development and performance of the learning programme on an on-going basis to ensure that the programme remains current and valid and that the learning outcomes, learning and teaching activities and learner assessments are effective to meet the programme objectives.

4.7.1 UOWCHK provided the following information on programme approval, review and quality assurance:

- (a) Procedures for Planning and Approval of New Degree Programmes;
- (b) Procedures for Course Review;
- (c) Procedures for Annual Programme Review;
- (d) Guidelines on Follow-up Actions on Teaching Feedback Information Obtained for Teaching Enhancement;
- (e) Extracts of meeting minutes of relevant Boards/Committees/working groups of UOWCHK showing the deliberation, decision and approval in relation to the two Programmes; and
- (f) Programme Validation Panel (PVP) Reports for the two Programmes.

4.7.2 UOWCHK has developed the procedures for the approval of new programmes. For the two Programmes, UOWCHK provided the Panel with the minutes of meetings of relevant Boards/Committees, such as the Academic Board, Academic Planning and Development Committee, showing that the two Programmes had gone through the internal approval process. The full report of the PVP including its comments and recommendations, and the Programme Planning Team's responses were also provided.

4.7.3 For quality assurance processes of the programme reviews, Course Examiners (CEs) are responsible for conducting a review of the courses they are responsible for and preparing course review reports while a Programme Leader is responsible for examining the course review reports, considering improvement actions and reporting the observations to the Programme Committee during its meetings. As for the feedback from students on their learning experience, a Teaching and Learning Questionnaire (TLQ) is administered for

every course/section. Furthermore, class representatives will be elected by students in each cohort of the programme to sit on the Programme Committee.

- 4.7.4 To collect feedback externally, an External Academic Advisor (EAA) and an External Professional Advisor (EPA) are appointed for each programme. EAAs assist UOWCHK in maintaining the academic standard of the award and provide advice on assessment tasks and academic content of courses. EPAs are consulted for the latest industry developments as well as for feedback on the relevance of the programmes in meeting industry and community needs. The Panel noted that a Programme Advisory Committee will be established once the programme is launched. However, it appears that external members, who met the Panel, did not seem to have a strong involvement in programme development. The Panel **advised** the Operator to further strengthen the engagement of external stakeholders in the process of programme review and monitoring.
- 4.7.5 On the offering of the Maritime Policy Concentration of BMSOM in which students are required to take four courses taught by UOW, UOWCHK provided the Panel with a letter of intent stating that UOW Global Enterprises agrees to further progress a service agreement for collaboration. After reviewing the letter of intent and the discussion with the management, the Panel had the following observations and comments:
- (a) UOWCHK does not yet have institutional policies and mechanisms to approve, govern and monitor such a collaboration. The management representatives explained that this is the first time UOWCHK to invite a partner to deliver the courses of its degree programmes. UOWCHK is confident in the quality assurance system of UOW Australia. The Panel noted that UOWCHK is under the governance of UOW, but considered that as the awarding body of BMSOM, UOWCHK should formulate a clear institutional policy in support of the delivery of the concentration, given these courses are taught by UOW, an institution independent of UOWCHK's QA mechanisms and administration. While recognising the underlying positive collaboration between UOW and UOWCHK, clarification of key operational, administrative and quality assurance aspects is still required.
 - (b) The letter of intent states that students will receive recognition for prior learning to the degree at UOWCHK upon completion of the four UOW courses. However, the UOWCHK's *Guidelines*

on Assessment for Prior Learning only covers the point of admission when permitting the granting of UOWCHK academic credit before joining a programme. When clarifying the nature of the collaboration, the Panel was informed that the involvement of UOWCHK is greater than usual arrangements for credit transfer/ student exchange. The Panel considered that the nature of collaboration for the concentration must be clearly defined to ensure its appropriateness under the QF and associated policies.

- (c) The Panel was informed that UOWCHK has ownership of BMSOM and the right to decide whether the concentration can continue in the BMSOM programme in Hong Kong. However, the letter of intent states that the UOW teaching staff will be responsible for assessment and quality assurance. During the site visit, the management explained that the BMSOM Programme Leader will ensure that the course outline is delivered as agreed between the two parties. Moderation will be conducted and student feedback will be collected. However, the Panel found these arrangements have not yet been documented in a systematic way. In addition, the grading system of UOW differs from UOWCHK. Given that the Maritime Policy Concentration is part of BMSOM, UOWCHK has an obligation to develop a comprehensive QA framework and mechanism to monitor students' learning experience, teaching quality and assessment grades.
- (d) There is no mention of the name "Maritime Policy Concentration" and key elements of a partnership agreement are not yet documented. For example, teach out arrangements for termination were not included in the letter of intent. The management explained that the detailed collaboration will be discussed and a service agreement will be prepared. The Panel considered that this service agreement is an important quality assurance document specifying the roles of both the local and non-local partners within each particular area of operation in the concentration.

4.7.6 Considering the close relationship between UOW and UOWCHK and yet the unsettled details of the collaboration, especially in the area of quality assurance, the Panel recommended the approval of the Maritime Policy Concentration as part of BMSOM with the following conditions:

Pre-condition

UOWCHK is to conduct a review of the collaboration between UOW Australia and UOWCHK for the Maritime Policy Concentration with respect to the following aspects:

- (a) To develop an institutional policy for the collaboration between UOW Australia and UOWCHK in relation to the delivery of the concentration;
- (b) To produce a policy statement that defines the nature of the collaboration on the concentration between UOW Australia and UOWCHK;
- (c) To develop mechanisms and systems for monitoring the collaboration on the concentration, such as quality assurance processes for courses and concentration, quality of student learning experience and assessment/ grading consistency; and
- (d) To provide a copy of the final agreement to substantiate that the concentration has been formally approved by the two parties for implementation starting from the 2023/24 academic year, including teach out arrangements, appeal systems and the responsibilities of two parties at the course, concentration and programme levels.

For the fulfilment of the above pre-condition, UOWCHK is to report to HKCAAVQ **on or before 31 May 2023** whether it will include the concentration in the BMSOM Programme. If affirmative, UOWCHK is to submit a copy of the final agreement together with relevant documentation, including approval records, to demonstrate that proper policies and mechanisms are in place for the delivery of the concentration.

Requirement

UOWCHK is to review and monitor the effectiveness of the operation of the Maritime Policy Concentration and students' learning experience on an on-going basis and compile a review report for this particular concentration.

UOWCHK is to submit a review report including annual review findings and follow up actions taken in the first two years of operation together with the approval documents to HKCAAVQ for the fulfilment of the above requirement **on or before 31 December 2025**.

- 4.7.7 Based on the above, the Panel concluded that quality assurance processes are in place for the review of the development and performance of the two Programmes. The Panel held the view that BMSOM can be offered as an accredited programme without the Maritime Policy Concentration at this point in time. If UOWCHK decides to include the Maritime Policy Concentration in BMSOM, there is the need to develop relevant policies, processes and systems to govern and monitor the delivery of the concentration, which is set as a Pre-condition stated in Para.4.7.6.

5. IMPORTANT INFORMATION REGARDING THIS ACCREDITATION REPORT

5.1 Variation and withdrawal of this Accreditation Report

- 5.1.1 This Accreditation Report is issued pursuant to section 5 of the AAVQO, and contains HKCAAVQ's substantive determination regarding the accreditation, including the validity period as well as any conditions and restrictions subject to which the determination is to have effect.
- 5.1.2 HKCAAVQ may subsequently decide to vary or withdraw this Accreditation Report if it is satisfied that any of the grounds set out in section 5 (2) of the AAVQO apply. This includes where HKCAAVQ is satisfied that the Operator is no longer competent to achieve the relevant objectives and/or the Programme no longer meets the standard to achieve the relevant objectives as claimed by the Operator (whether by reference to the Operator's failure to fulfil any conditions and/or comply with any restrictions stipulated in this Accreditation Report or otherwise) or where at any time during the validity period there has/have been substantial change(s) introduced by the Operator after HKCAAVQ has issued the accreditation report(s) to the Operator and which has/have not been approved by HKCAAVQ. Please refer to the '*Guidance Notes on Substantial Change to Accreditation Status*' in seeking approval for proposed changes. These Guidance Notes can be downloaded from the HKCAAVQ website.
- 5.1.3 If HKCAAVQ decides to vary or withdraw this Accreditation Report, it will give the Operator notice of such variation or withdrawal pursuant to section 5(4) of the AAVQO.

- 5.1.4 The accreditation status of Operator and/or Programme will lapse immediately upon the expiry of the validity period or upon the issuance of a notice of withdrawal of this Accreditation Report.

5.2 Appeals

- 5.2.1 If the Operator is aggrieved by the determination made in this Accreditation Report, then pursuant to Part 3 of the AAVQO the Operator has a right of appeal to the Appeal Board. Any appeal must be lodged within 30 days of the receipt of this Accreditation Report.
- 5.2.2 If the Operator is aggrieved by a decision to vary or withdraw this Accreditation Report, then pursuant to Part 3 of the AAVQO the Operator has a right of appeal to the Appeal Board. Any appeal must be lodged within 30 days of the receipt of the Notice of Withdrawal.
- 5.2.3 The Operator should be aware that a notice of variation or withdrawal of this Accreditation Report is not itself an accreditation report and the right to appeal against HKCAAVQ's substantive determination regarding accreditation arises only from this Accreditation Report.
- 5.2.4 Please refer to Cap. 592A (<http://www.legislation.gov.hk>) for the appeal rules. Details of the appeal procedure are contained in section 13 of the AAVQO and can be accessed from the QF website at <http://www.hkqf.gov.hk>.

5.3 Qualifications Register

- 5.3.1 Qualifications accredited by HKCAAVQ are eligible for entry into the Qualifications Register ("QR") at <http://www.hkqr.gov.hk> for recognition under the QF. The Operator should apply separately to have their quality-assured qualifications entered into the QR.
- 5.3.2 Only learners who commence the study of the named accredited learning programme during the validity period and who have graduated with the named qualification listed in the QR will be considered to have acquired a qualification recognised under the QF.

UOW College Hong Kong

**Learning Programme Accreditation for
(i) Bachelor of Maritime Services and Operations Management (Honours)
and
(ii) Bachelor of Science (Honours) in Smart-City Technology and Urban
Informatics**

5 – 8 July 2022

Panel Membership

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* The Panel Secretary is also a member of the Accreditation Panel.

Appendix 2

Graduate Profile of Bachelor of Maritime Services and Operations Management (Honours)

Qualification Title	Bachelor of Maritime Services and Operations Management (Honours) 航運服務及營運管理學士(榮譽)
Qualification Type	Degree
QF Level	5
Primary Area of Study and Training	Business and Management
Sub-area (Primary Area of Study and Training)	Transports and Logistics
Other Area of Study and Training	Not applicable
Sub-area (Other Area of Study and Training)	Not applicable
Programme Objectives	1. Enable students to acquire and apply multi-faceted business knowledge to business problems in a wide range of contexts; 2. Equip students with theoretical and practical knowledge and skills to apply technologies and support innovation in the maritime sector amid a changing business environment; 3. Develop students' analytical and critical thinking skills in making managerial decisions for maritime businesses; 4. Nurture students' potential and train them to be competent, broad-based, all-rounded and socially responsible professionals to work in the maritime sector; and 5. Prepare students for meeting future challenges in a broad range of personal and professional contexts by equipping them with intellectual and practical skills, an understanding of diverse cultures, and knowledge of arts and humanities, science and technology, and social sciences.
Programme Intended Learning Outcomes	Upon completion of the Major, students should be able to:

	I. Apply generic business knowledge and skills to business problems and formulate evidence-based responses to achieve the goals of local and global business; II. Design and implement integrated solutions to management problems in maritime services and operations; III. Analyse and evaluate the major political, socio-cultural, economic, technological and ethical issues affecting the business environment and decisions related to the maritime industries in local, national, regional and international contexts and generate ideas to address those issues; IV. Apply information technology and quantitative, problem-solving and critical thinking skills to analyse and address maritime management issues; and V. Use effective communication and interpersonal skills to work as a team member and a responsible professional. Upon completion of the GE component, students should be able to: 1. Apply intellectual and practical skills, including proficiency in written and oral communication, inquiry techniques, critical and creative thinking, quantitative reasoning and problem-solving skills in a broad range of personal and professional contexts. 2. Achieve global awareness by gaining knowledge of diverse peoples and cultures and develop the ability to interact with others in culturally diverse settings. 3. Explain the operations of the natural and social world through the study of arts and humanities, science and technology, social sciences and Greater China. 4. Demonstrate the capacity and resourcefulness for lifelong learning and life management for assuming individual and social responsibilities to fulfill the needs of personal and professional lives.
Education Pathways	Education Pathways Graduates are expected to be eligible to apply for most of the full-time or part-time taught master's degree programmes in business management, operations management, shipping, logistics and supply chain management. Examples of the programmes to which students would be eligible to apply include:

	<table><tr><th>Institutions</th><th>Programmes</th></tr><tr><td>City University of Hong Kong</td><td>Master of Science in Operations and Supply Chain Management Master of Arts in Global Business Management</td></tr><tr><td>Hong Kong Baptist University</td><td>Master of Science in Business Management</td></tr><tr><td>Lingnan University</td><td>Master of Science in eBusiness and Supply Chain Management</td></tr><tr><td>The Chinese University of Hong Kong</td><td>Master of Science in Management</td></tr><tr><td>The Hong Kong Polytechnic University</td><td>Master of Science/Postgraduate Diploma in International Shipping and Transport Logistics Master of Science/Postgraduate Diploma in Global Supply Chain and Logistics Management</td></tr><tr><td>The Hong Kong University of Science & Technology</td><td>Master of Science in Engineering Enterprise Management</td></tr></table>	Institutions	Programmes	City University of Hong Kong	Master of Science in Operations and Supply Chain Management Master of Arts in Global Business Management	Hong Kong Baptist University	Master of Science in Business Management	Lingnan University	Master of Science in eBusiness and Supply Chain Management	The Chinese University of Hong Kong	Master of Science in Management	The Hong Kong Polytechnic University	Master of Science/Postgraduate Diploma in International Shipping and Transport Logistics Master of Science/Postgraduate Diploma in Global Supply Chain and Logistics Management	The Hong Kong University of Science & Technology	Master of Science in Engineering Enterprise Management
Institutions	Programmes														
City University of Hong Kong	Master of Science in Operations and Supply Chain Management Master of Arts in Global Business Management														
Hong Kong Baptist University	Master of Science in Business Management														
Lingnan University	Master of Science in eBusiness and Supply Chain Management														
The Chinese University of Hong Kong	Master of Science in Management														
The Hong Kong Polytechnic University	Master of Science/Postgraduate Diploma in International Shipping and Transport Logistics Master of Science/Postgraduate Diploma in Global Supply Chain and Logistics Management														
The Hong Kong University of Science & Technology	Master of Science in Engineering Enterprise Management														
Employment Pathways	Graduates of the programme should be able to seek employment in the following positions: • Shipping Operator • Shipping Officer • Shipping Line Officer • Ship Officer • Export Sales Officer • Freight Forwarder • Chartering Officer • Logistics Coordinator • Logistics Officer • Supply Chain Officer • Supply Chain Coordinator • Sourcing Officer • Customer Operation Coordinator														
Minimum Admission Requirements	<u>Year 1 Entry</u> (a) <i>Hong Kong Diploma of Secondary Education (HKDSE)</i> Obtain Level 3 in Chinese Language¹ and English Language, Level 2 in Mathematics, Level 2 / “Attained” in Liberal Studies / Citizenship and Social Development², and Level 2 in one Elective Subject or “Attained” in one Applied Learning Subject or Grade E in one Category C subject;														

	¹Alternative qualifications in Chinese language (For Non-Chinese Speaking Applicants Only) For non-Chinese speaking applicants who have learnt Chinese Language for less than six years while receiving primary and secondary education. This caters specifically to applicants who have a late start in the learning of Chinese Language (e.g. due to their settlement in Hong Kong well past the entry level) or who have been educated in Hong Kong sporadically; OR have learnt Chinese Language for six years or more in schools, but has been taught an adapted and simpler Chinese Language curriculum not normally applicable to the majority of students in the local schools, the following language qualifications can be accepted as alternative qualifications in Chinese language • Attained in Applied Learning Chinese (for non-Chinese Speaking students) ApL(C) • Grade E in GCE (A-Level) • Grade E in GCE (AS-Level) • Grade C in GCE (O-Level) • Grade C / Grade 4 in GCSE • Grade C / Grade 4 in IGCSE ²Liberal Studies is applicable for 2023 entry while Citizenship and Social Development is applicable from 2024 entry and onwards. <i>(b) Hong Kong Advanced Level Examination (HKALE)</i> Pass AS Use of English and AS Chinese Language and Culture plus one AL subject/two AS subjects in HKALE and Level 2 in Chinese Language and English Language plus passes in three other subjects in HKCEE; <i>(c) Alternative Qualifications</i> (i) Qualifications attained from a local international school, such as the GCE Advanced Level if results similar to those listed under paragraph (b) above have been achieved; (ii) An international Baccalaureate Diploma with an overall minimum score of 24 over six subjects including 3 subjects at a high level and 3 at standard
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	level, with 12 points or above obtained from subjects at a high level <u>Year 2 Entry</u> Holders of an Associate Degree (AD) or a Higher Diploma (HD) in any discipline from a recognised tertiary institution in Hong Kong with a cumulative GPA of 2.0 or above, or equivalent qualifications. <u>Year 3 Entry</u> Holders of an Associate Degree or a Higher Diploma in a similar or relevant discipline from a recognised tertiary institution in Hong Kong with a cumulative GPA of 2.0 or above, or equivalent qualifications.
Operator	UOW College Hong Kong 香港伍倫貢學院

Appendix 3**Graduate Profile of
Bachelor of Science (Honours) in Smart-City Technology and Urban Informatics**

Qualification Title	Bachelor of Science (Honours) in Smart-City Technology and Urban Informatics 智慧城市科技與城市信息學(榮譽)理學學士
Qualification Type	Degree
QF Level	5
Primary Area of Study and Training	Engineering and Technology
Sub-area (Primary Area of Study and Training)	Computer Science and Information Technology
Other Area of Study and Training	Not applicable
Sub-area (Other Area of Study and Training)	Not applicable
Programme Objectives	1. Equip students with information technology and problem-solving skills in addition to practical knowledge in urban planning and smart city innovations. 2. Develop students' ability to leverage emerging technologies and urban informatics to design and customise solutions in urban projects. 3. Nurture a workforce with the technological know-how for smart city development. 4. Cultivate students' personal integrity, ethical standards, individual values and attitudes, social responsibility and critical and creative thinking skills to meet the challenges of a sustainable digitised liveable city.
Programme Intended Learning Outcomes	Upon completion of the Major, students should be able to: I. Apply essential computing theories, urban domain knowledge, emerging technologies and urban informatics to smart city development projects.

	II. Design and implement technology solutions with urban informatics to enhance public services and address city challenges. III. Develop smart city solutions integrating technological components, the social context and ethical considerations. IV. Act professionally, with a sense of integrity, accountability and responsibility. V. Use effective communication and interpersonal skills in business and technical communities. Upon completion of the GE component, students should be able to: 1. Apply intellectual and practical skills, including proficiency in written and oral communication, inquiry techniques, critical and creative thinking, quantitative reasoning and problem-solving skills in a broad range of personal and professional contexts. 2. Achieve global awareness by gaining knowledge of diverse peoples and cultures and develop the ability to interact with others in culturally diverse settings. 3. Explain the operations of the natural and social world through the study of arts and humanities, science and technology, social sciences and Greater China. 4. Demonstrate the capacity and resourcefulness for lifelong learning and life management for assuming individual and social responsibilities to fulfill the needs of personal and professional lives.
Education Pathways	Opportunities for graduates to advance themselves academically and professionally in the field are numerous. Academically, they will be able to apply for master's degree. Some examples of local master's degree programmes related to smart city available in Hong Kong are: • Master of Science in Urban Informatics and Smart Cities (MSc) and Postgraduate Diploma in Urban Informatics and Smart Cities (PgD) (PolyU) • Master of Urban Design and Regional Planning and MA Urban Management (CityU) • Master of Science in Urban Analytics (HKU)

	• Master of Science in Geoinformation Science and Smart Cities (CUHK). In general, master's degrees in urban management or system engineering in local institutions are suitable for the graduates of BScSCTUI. Graduates can also select from a wide range of master's degree programmes from mainland China and overseas universities in Singapore, Taiwan, the United Kingdom and Germany etc.
Employment Pathways	A wide range of job opportunities will be available in the six key areas identified by the Government, including 'smart mobility', 'smart living', 'smart environment', 'smart people', 'smart government' and 'smart economy'. For example, students could find work in the following fields in the management of a smart city to address the needs of public administration and businesses: • Graduate Trainee • Assistant Project Manager • An assistant IT Officer • Junior/Assistant Business Consultant for Smart City and Automation • Network Engineer/Consultant for IoT and Smart City • Software Engineer/Web Developer for Automation and Intelligence • Junior/Assistant Technical Consultant for Smart Automation • Junior/Assistant Traffic Consultant
Minimum Admission Requirements	<u>Year 1 Entry</u> (a) <i>Hong Kong Diploma of Secondary Education (HKDSE)</i> Obtain Level 3 in Chinese Language¹ and English Language, Level 2 in Mathematics, Level 2 / "Attained" in Liberal Studies / Citizenship and Social Development², and Level 2 in one Elective Subject or "Attained" in one Applied Learning Subject or Grade E in one Category C subject;

	¹Alternative qualifications in Chinese language (For Non-Chinese Speaking Applicants Only) For non-Chinese speaking applicants who have learnt Chinese Language for less than six years while receiving primary and secondary education. This caters specifically to applicants who have a late start in the learning of Chinese Language (e.g. due to their settlement in Hong Kong well past the entry level) or who have been educated in Hong Kong sporadically; OR have learnt Chinese Language for six years or more in schools, but has been taught an adapted and simpler Chinese Language curriculum not normally applicable to the majority of students in the local schools, the following language qualifications can be accepted as alternative qualifications in Chinese language • Attained in Applied Learning Chinese (for non-Chinese Speaking students) ApL(C) • Grade E in GCE (A-Level) • Grade E in GCE (AS-Level) • Grade C in GCE (O-Level) • Grade C / Grade 4 in GCSE • Grade C / Grade 4 in IGCSE ²Liberal Studies is applicable for 2023 entry while Citizenship and Social Development is applicable from 2024 entry and onwards. <i>(b) Hong Kong Advanced Level Examination (HKALE)</i> Pass AS Use of English and AS Chinese Language and Culture plus one AL subject/two AS subjects in HKALE and Level 2 in Chinese Language and English Language plus passes in three other subjects in HKCEE; <i>(c) Alternative Qualifications</i> (i) Qualifications attained from a local international school, such as the GCE Advanced Level if results
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	similar to those listed under paragraph (b) above have been achieved; (ii) An international Baccalaureate Diploma with an overall minimum score of 24 over six subjects including 3 subjects at a high level and 3 at standard level, with 12 points or above obtained from subjects at a high level
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