

COMMITTEE ON UNDERGRADUATE STUDIES

Paper for: Discussion

Title: **Initial Proposal for a new BSc Program in Sustainable and Green Finance**

Purpose: The School of Business and Management and Interdisciplinary Programs Office submit an initial proposal to introduce a new BSc program in Sustainable and Green Finance for implementation with effect from Fall 2022-23 for discussion and comments by CUS

Submitted by: School of Business and Management and Interdisciplinary Programs Office

Prepared by: CUS Secretariat

BACKGROUND

1. In accordance with the policies and procedures for undergraduate programs and course administration, departments intending to introduce a new program should submit to the Committee on Undergraduate Studies (CUS) an initial program plan for vetting prior to preparing the detailed proposal.
2. The School of Business and Management (SBM) and Interdisciplinary Programs Office (IPO) take an initiative to offer a new BSc program in Sustainable and Green Finance and submit an initial proposal which is presented in the Appendix.

ACTION SOUGHT

3. CUS is invited to discuss and comment on the initial proposal for the BSc program in Sustainable and Green Finance as presented in the Appendix. In particular, members are invited to identify issues or questions that SBM/IPO should address in preparing the final program proposal.

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THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

APPROVAL OF NEW UNDERGRADUATE PROGRAM

a) Educational Objectives and Alignment of Objectives with Role and Mission

Sustainable and green finance is an emerging discipline that aims to increase the level of financial flows from the public, private and not-for-profit sectors to sustainability development priorities at the national and global levels. The consent among signing nations of the landmark U.N. Paris Agreement in 2015 is to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels. Mainland China is a strong advocate of the Agreement and aims to achieve zero carbon emission by 2060. Hong Kong also sets its carbon neutrality target in 2050. This collective effort among nations with clear milestones and targets under the Paris Agreement or their own national agendas will create tremendous opportunities for professionals who can lead and integrate Environmental, Social and Governance (ESG) strategies into finance and investments.

According to a recent report of Boston Consulting Group, China will have to invest up to HK\$118 trillion over the next three decades in technologies and infrastructure to achieve the said target. These investment opportunities will create a huge demand for professionals who are knowledgeable of finance, sustainability, climate change, and related technological solutions. There is a huge gap between the supply and demand for talent in Sustainable and green finance worldwide. Currently, there is no undergraduate program in Hong Kong that focuses on green finance while universities in Europe and the US have started to launch programs in recent years. In response to this surging demand, the School of Business and Management (SBM) is collaborating with the Division of Environment and Sustainability (ENVR) to offer a 4-year Bachelor of Science program in Sustainable and Green Finance. With a strong Environment Division and a reputable Business School, HKUST is in a unique position to develop a new program to fill the talent gap and help develop Hong Kong into a leading international green finance center.

The proposed program will equip students with the essential knowledge and skills in Sustainable and green finance. It intends to nurture students to be effective leaders and managers in ESG, impact investment, financing of Sustainable and green projects, development of Sustainable and green instruments and products, and other related fields. Students are required to complete a selected set of courses from SBM, ENVR, and other academic units to fulfill the degree requirements. The curriculum will embrace a wide range of topics related to Sustainable and green finance. The courses will span multiple disciplines, including climate and ESG, finance and risk management, statistics and programming, big data, operations management, public policy, among others.

The proposed program aligns strongly with HKUST's vision and mission. In particular, the interdisciplinary nature of the program will provide students with a broad-based learning experience that cuts across business as well as environment, science, and technology. Its holistic curriculum will equip students with a solid foundation of knowledge and skills to function effectively in related fields, enhance students' creativity and critical thinking skills, and provide students with a global outlook on the development of Sustainable and green finance. The graduates of this program will be in good demand, and they will contribute to the economic and social development of Hong Kong, the Greater Bay Area, and beyond.

This program will include a total of 115 credits, including:

- University Common Core (Revamped): 30 credits
- Business and Finance Required Courses: 24 credits
- Environment and Sustainability Required Courses: 24 credits
- Other Required Courses: 19-20 credits
- Sustainable and Green Finance Electives: 18 credits

For details, please refer to Attachment 1: Curriculum Requirements.

b) Student Demand and Demand for Graduates

To moderate the adverse impacts of climate changes is a shared priority of developed and developing nations. The goal to “green the brown” will create tremendous opportunities in new energy technologies, development of financial markets such as carbon pricing and trading to facilitate the replacement of fossil energy, digitization of infrastructure of transportation to save energy consumption, the market for green bonds and other instruments to fund sustainability projects. Hong Kong, as an international financial center, can play an important role in this development that will span decades.

In the Chief Executive's Policy Address 2020, Mrs. Carrie Lam said, “We will develop green finance to boost investments conducive to reduce carbon emissions, build a low-carbon economy which is more resilient to climate change, and enhance public education and publicity. I cordially invite all sectors to work together to promote low-carbon transformation in Hong Kong in a bid to strive towards the goal of carbon neutrality by 2050.” (<https://www.policyaddress.gov.hk/2020/eng/policy.html>). Subsequent to the announcement of the Policy Address, Professor Arthur Li, Chairman of the Council for Sustainable Development (SDC), expressed that “It is a challenge for Hong Kong to strive to achieve carbon neutrality before 2050, which requires collaborative efforts across the Government, businesses, non-profit sector, and individuals. Yet, at the same time, it offers new opportunities for the Hong Kong economy, intensifies the development of green enterprises, and creates jobs. Hong Kong, as an advanced international metropolis, should capitalise on its well-developed infrastructure, enable its talents to realise their

potential, and promote local research and development. We should seize this opportunity and work together so that Hong Kong can strive to achieve carbon neutrality before 2050.”
(<https://www.info.gov.hk/gia/general/202011/25/P2020112500723p.htm>)

There is a great demand for talent in sustainable and green finance. However, there is a worldwide shortage of talent in Sustainable and green finance. A report produced by Macquarie Infrastructure and Real Assets of Macquarie Group Limited in January 2020 points out that although more than 90 percent of real asset investors expect to increase their focus on sustainability over the next five years, there is an absence of in-house ESG expertise, especially in the US and Asia.
(<https://www.macquarie.com/hk/en/about/news/2020/focus-on-esg-intensifies-as-real-asset-investors-seek-returns-reveals-new-macquarie-infrastructure-and-real-assets-report.html>) The shortage of talent pool is also found in Europe. Natalie Basiratpour, a director at recruitment firm Octavius Finance in London, was interviewed by eFinancialCareers and said, “there’s a tendency for funds to hire people with ESG experience from not for profits and elsewhere and to sit them alongside people with existing investing talent, with the intention that ESG experts will influence the outcomes.”
(<https://news.efinancialcareers.com/uk-en/3004891/esg-jobs-and-pay-finance>)

Talent is the key to develop Hong Kong into a green finance center and to prepare for the carbon neutrality challenge. There is no degree program in Sustainable and green finance in Hong Kong as of today. While there exist local degree programs in either finance or environment, but they tend to focus on silo traditional disciplines with little integration between finance and environment, which is the essence of this emerging discipline. From all indications we received from the government, regulators, and industry, there is already a huge demand for professionals in Sustainable and green finance, and the talent gap will only be widened in the future.

c) Arrangements for Admission and Selection (if relevant)

A hybrid admission model will be adopted for this program. For an initial class size of 30, 18 will be directly recruited and admitted from secondary schools, and 12 will be admitted through the major selection exercise from SBM at the end of year 1. This hybrid model allows some students with dual interests across two distinct disciplines to follow a coordinated and integrated curriculum so they can adapt their study earlier to pursue their interests. At the same time, it preserves the opportunity for those who have not decided their interest in admission to HKUST but who later find that they are interested in studying Sustainable and green finance.

For admission requirements, we will combine the current requirements of SBM and ENVR for the new program. For HKDSE, the proposed minimum requirements are 433233 (for English, Chinese, Mathematics, Liberal Studies, and two other electives), with a weighting of 2 for English and Mathematics

and 1.5 for the best elective score from Chemistry/Economics/Physics/M1/M2. Interviews may be conducted as part of the selection.

For students admitted to the joint program who wish to exit the major, they can transfer to SBM or ENVR (as an undeclared major for SBM) after the first term (application deadline is in the Winter term before Spring term starts) so that the students can enroll in the relevant courses in the School that they wish to opt-in. This will ensure that the students will still be able to follow the new curriculum without further delay and will be able to graduate in time. After this opt-out deadline, students may still transfer to SBM or ENVR through program transfer.

d) Estimated Student Enrollment (for majors/minors)

The initial intake in 2022-23 will be 30 students.

e) Consultation with Stakeholders

SBM has consulted its School Advisory Council at its meeting held on 8 October 2020. The Council consists of local and international business leaders from various professional industries. Strong support has been obtained from the Council on the School's strategic development on Sustainable and green finance.

We have also interviewed the following stakeholders to solicit their views on the degree program in Sustainable and green finance and the demand for talent in Hong Kong:

Title and Institution	Name
Secretary of Financial Services and Treasury Bureau	Christopher Hui
Former Undersecretary of Environment	Christine Loh
Chief Executive of Hong Kong Monetary Authority	Eddie Yue
Deputy Executive of Hong Kong Monetary Authority	Arthur Yuen
Senior Director, Head of International Affairs & Sustainable Finance Securities and Futures Commission	Christine Kung
Head of Banking Policy, Hong Kong Monetary Authority	Daryl Ho
Managing Director, Head of Green and Sustainable Finance, Markets Division, Hong Kong Exchanges and Clearing Limited	Grace Hui
Chairman, World Green Organization (Hong Kong)	Albert Yip
President, EFMD	Eric Cornuel

Their comments and advice are very consistent that such a degree program will increase the talent pool and capacity of Hong Kong in the area of Sustainable and green finance. On Nov 19, 2020, we invited Daryl Ho (Head of Banking Policy of HKMA) to brief our faculty on the issues and priorities of HKMA on climate and green finance so that colleagues in planning the curriculum have first-hand information on the development of the industry and its trajectory.

f) Benchmarking

We have conducted a benchmarking study and found no degree program in Sustainable and green finance offered by UGC institutions at this point. We have also reviewed overseas programs in related areas. Please refer to a separate table in [Attachment 2 for benchmarking](#) the University of Leeds, the University of Reading, the University of Warwick, our existing Quantitative Finance major and our existing Environment Management and Technology major, and the proposed program.

g) Resources

Some courses in the program are existing courses offered by SBM and ENVR. Additional resources will be needed to develop new interdisciplinary courses, to identify suitable capstone projects and advisors for the students, and to support program administration (e.g., recruitment and admission, student advising).

h) Responses to Issues and Questions Raised by the CUS on the Initial Proposal

N/A

i) Intended Learning Outcomes

Graduates from the program are expected to:

1. have a broad understanding of Sustainable and green business functions and integrate these functions to adopt an inter-disciplinary approach and formulate effective and innovative solutions to tackle complex real-world problems.
2. have in-depth grasp of Sustainable and green finance knowledge and skills, and transfer acquired knowledge and skills to meet changes and challenges in different fields.
3. engage in activities that lead to impact of societal improvement
4. make effective ESG finance decisions supported by analytical and quantitative techniques.
5. have the ability to create and innovate with divergent thinking.
6. communicate effectively with people of different levels and work areas.
7. work independently, collaborate effectively in teams, and lead a team to success.
8. demonstrate a global outlook and function effectively in multi-cultural and international settings.
9. effectively use information technology and sources of information in work applications.
10. understand professional and ethical responsibility, and recognize the importance of a sustainable and green living society.

j) Program Management

Both SBM and ENVR are fully committed to the program. SBM and ENVR will each appoint a faculty member as a Co-Director to jointly manage the program. An Executive Committee will be formed consisting of the two Co-Directors and administrative representatives from SBM and ENVR (Heads and/or Associate Deans) as members. The Committee will meet at least quarterly or more often as needed to discuss strategic and administrative matters and to ensure the program's smooth operation. Administratively, the program will be housed under SBM. The proposed program management arrangements will be reviewed after 2 years or earlier if major issues come up.

k) Transitional Arrangement

N/A

Bachelor of Science in Sustainable and Green Finance**Curriculum Requirements**

This program will include a total of 115 credits, including:

- University Common Core (Revamped): 30 credits
- Business and Finance Required Courses: 24 credits
- Environment and Sustainability Required Courses: 24 credits
- Other Required Courses: 19-20 credits
- Sustainable and Green Finance Electives: 18 credits

School of Business and Management - BSc in Sustainable and Green Finance

(For students admitted in 2022-23 under the 4-year degree)

BSc in Sustainable and Green Finance

Students taking the BSc Program in Sustainable and Green Finance as their first major are exempted from the School Requirements. However, they are still required to complete the University requirements in addition to the major requirements for graduation. For details please refer to the respective sections on this website.

Some courses can be used to fulfill both Major and University Common Core Requirements. Students may reuse a maximum of 6 credits of these courses to count towards both Requirements.

Students may use no more than 6 credits earned from courses offered in pure online delivery mode to satisfy the graduation requirements of a degree program. This 6-credit limit does not apply to credits obtained through the credit transfer procedures of the University.

For students graduating with an additional major, they must take all the requirements specified for that major, within which they must complete at least 20 single-counted credits. These 20 credits cannot be used to fulfill any other requirements for graduation except for the 120-credit degree requirement.

Major Requirements**Required Course(s)**

			Credit(s) attained
FINA/ ISOM/ MGMT	Business and Finance Required Courses (Courses from the specified list)		24
FINA	3103	Intermediate Investments	3
FINA	3203	Derivatives	3
FINA	3810	Bloomberg Market Concepts Certification	0
FINA	4303	Fixed Income Securities	3
FINA	4929L	ESG Investing	3

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FINA	4929O	Risk Management	3
FINA	XXXX	Green Finance Case Analyses (TBD)**	3
ISOM	XXXX	Sustainable Supply Chain Management (TBD)**	3
MGMT	3170	Managing CSR (Corporate Social Responsibility)	3
ENVR/ SUST			24
Environment and Sustainability Required Courses (Courses from the specified list)			
ENVR	2XXX	Sustainable Development (TBD)**	3
ENVR	2XXX	Circular Economy and Life Cycle Assessment (TBD)**	3
ENVR	3310	Green Business Strategy	3
ENVR	3XXX	Environmental Sustainability Risks and Challenges (TBD)**	3
ENVR	4XXX	Social Sustainability Risks and Challenges (TBD)**	3
ENVR	4XXX	National and International Perspective – Governance and Applications (TBD)**	3
ENVR	4320	ESG Management and Reporting	3
SUST	1000	Introduction to Sustainability	3
FINA/ ISOM/ MGMT/ LABU/ MATH			19-20
Other Required Courses from the specified list (Students should take FINA 2203 <u>OR</u> FINA 2303; and take MATH 1003 <u>OR</u> MATH 1012 <u>OR</u> MATH 1013 <u>OR</u> MATH 1020 <u>OR</u> MATH 1023.)			
FINA	2203	Fundamentals of Business Finance	3
FINA	2303	Financial Management	3
ISOM	2020	Coding for Business	1
ISOM	2500	Business Statistics	3
ISOM	2600	Introduction to Business Statistics	1
MGMT	2130	Business Ethics and Social Responsibility	2
LABU	2040	Business Case Analyses	3
LABU	2060	Effective Communication in Business	3
MATH	1003	Calculus and Linear Algebra	3
MATH	1012	Calculus IA	4
MATH	1013	Calculus IB	3
MATH	1020	Accelerated Calculus	4
MATH	1023	Honors Calculus I	3

Elective(s)

**Minimum
Credit(s)
attained**

Sustainable and Green Finance Electives (Courses from the specified elective lists, of which at least 6 credits should be taken from each Area.)

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Area A: Finance

FINA Any FINA courses at 3000- or 4000-level.

Area B: Sustainability (at least 3 credits have to be above 3000-level)

ENVR	1070	Thinking Big: Systems Thinking for Environmental Problems	3
ENVR	1080	The Smart Consumer - Uncovering the Hidden Story behind the Product Label	3
ENVR	1170	Big History, Sustainability and Climate Change	3
ENVR	2010	Environmental Science Fundamentals	3
ENVR	3220	Energy Sources and Usage	3
ENVR	3420	Environmental Law and Regulations	3
ENVR	4480	Climate Modeling and Risk Assessment	3

****Remarks on course(s):**

- FINA xxxx: The course is a new course subject to approval.
- ISOM xxxx: The course is a new course subject to approval.
- ENVR 2xxx: The course is a new course subject to approval.
- ENVR 2xxx: The course is a new course subject to approval.
- ENVR 3xxx: The course is a new course subject to approval.
- ENVR 4xxx: The course is a new course subject to approval.
- ENVR 4xxx: The course is a new course subject to approval.

**Bachelor of Science in Sustainable and Green Finance
Benchmarking**

Program Name	Proposed New Program: Bachelor of Science in Sustainable and Green Finance	HKUST: Bachelor of Science in Quantitative Finance (QFIN)	HKUST: Bachelor of Science in Environmental Management and Technology (EVMT)	University of Leeds: Bachelor of Arts in Environment and Business	University of Reading: Bachelor of Science in Finance (Sustainable Finance)	University of Warwick: Bachelor of Arts and Sciences in Global Sustainable Development and Business Studies
Program Objective	The proposed program will equip students with the essential knowledge and skills in Sustainable and green finance to fill the talent gap and help develop Hong Kong into a leading international green finance center.	Equip students with knowledge and skills to solve complex financial problems and be well prepared for professional qualifications. Graduates are typically employed by investment banks, commercial banks, hedge fund, asset management firms, brokerage firms, insurance companies, consulting firms, the Big Four auditors, private equity firms, government agencies as well as many other types of both small and large well-known corporations.	Equip students with a focus on solving complex environmental problems in the complex world to pursue a career in environmental management.	Combines the study of environmental and sustainability issues with sound business and management practice. Graduates will work in private companies, non-governmental organisations or the public sector in the areas of environmental consultancy and management, corporate social responsibility.	Develop the key skills and knowledge to meet the changes in financial world by gaining expertise in sustainable finance and business ethics. Studies will be underpinned by core modules on the essentials of business and finance, giving graduates a thorough understanding of the financial sector.	A holistic approach to exploring issues surrounding sustainability, including climate change, energy security, and wealth inequality. Graduates will have developed critical knowledge of sustainability, and the skills necessary to transfer this knowledge into the world of business.
Degree Type	Bachelor of Science in Sustainable and Green Finance	Bachelor of Science in Quantitative Finance	Bachelor of Science in Environmental Management and Technology	Bachelor of Arts in Environment and Business	Bachelor of Science in Finance (Sustainable Finance)	Bachelor of Arts and Sciences in Global Sustainable Development and Business Studies
Duration of Study	4 years	4 years	4 years	3 years (4 years with placement year)	3 years (4 years with placement year)	3 years (3 years with integrated study abroad programme) (4 years with study abroad or placement year)
Admission	Direct admission	Direct admission	Direct admission	Direct admission	Direct admission	Direct admission
Credit Requirements	120 credits	120 credits	120 credits	360 credits	Not stated on the website	360 credits
Programme Requirements	<p>University Common Core (Revamped) (30 credits)</p> <p>Major Requirements (67 credits)</p> <p><i>(i) Business and Finance Required Courses (24 credits) - TBD</i></p> <ul style="list-style-type: none"> FINA3103 - Intermediate Investments (3 credits) FINA3203 - Derivatives (3 credits) FINA3810 - Bloomberg Market Concepts Certification (0 credit) FINA4303 - Fixed Income Securities (3 credits) FINA4929L - ESG Investing (3 credits) FINA4929O - Risk Management (3 credits) FINAXXXX - Green Finance Case Analyses (TBD) (3 credits) ISOMXXXX - Sustainable Supply Chain Management (TBD) (3 credits) MGMT3170 - Managing CSR (Corporate Social Responsibility) (3 credits) 	<p>University Common Core (36 credits)</p> <p>School Requirements (33-34 credits)</p> <ul style="list-style-type: none"> FINA2303 - Financial Management (3 credits) ACCT2010 - Principles of Accounting I (3 credits) ECON2103/2113 - Principles of Microeconomics/Microeconomics (3 credits) ECON2123/3123 - Macroeconomics/ Macroeconomic Theory I (3 credits) ISOM2010 - Introduction to Information Systems (3 credits) ISOM2020 - Coding for Business (1 credit) ISOM2500 - Business Statistics (3 credits) ISOM2600 - Introduction to Business Analytics (1 credit) MGMT2010 - Business Ethics and the Individual (2 credits) MGMT2130 - Business Ethics and Social Responsibility (2 credits) 	<p>University Common Core (36 credits)</p> <p>Fundamental Courses (10 -11 credits)</p> <ul style="list-style-type: none"> COMP 1021/1022P/ISOM 2010 - Introduction to Computer Science/ Introduction to Computing with Java/ Introduction to Information Systems (3 credits) LANG2082 - Communication for Environmental Management and Technology I (2 credits) LANG2083 - Communication for Environmental Management and Technology II (2 credits) MATH1003/1012/1013/1020/1023 - Calculus and Linear Algebra/ Calculus IA/ Calculus IB/ Accelerated Calculus/ Honors Calculus I (3-4 credits) <p>Business Requirements (21 credits)</p> <ul style="list-style-type: none"> ECON2103/2113 - Microeconomics (3 credits) MGMT2110 - Organizational Behavior (3 credits) 	<p>Year 1 (120 credits)</p> <p><i>Compulsory Modules</i></p> <ul style="list-style-type: none"> Understanding Social Enterprises (10 credits) Sustainable Development (20 credits) Skills for Environmental Social Science (10 credits) Introduction to Business, Environment and Corporate Responsibility (20 credits) Environmental Science for Environmental Management (20 credits) <p><i>Optional Modules (Choose 20 to 40 credits)</i></p> <ul style="list-style-type: none"> Foundation Mathematics for Social Sciences* (10 credits) *Students WITHOUT A-Level Maths or equivalent or AS Level Maths with a grade of A-C are required to study the course. Students who have completed A-Level Maths or 	<p>Year 1 (120 credits)</p> <p><i>Compulsory Modules</i></p> <ul style="list-style-type: none"> Introductory Securities and Markets (20 credits) Introductory Finance/Trading Simulation I (20 credits) Introductory Economics for Business and Finance (20 credits) Introductory Quantitative Techniques for Business and Finance (20 credits) Ethics in Investment Management (BSc) (20 credits) Business in Practice: Accounting for Managers (20 credits) <p>Year 2 (Not stated the no. of credits)</p> <p><i>Compulsory Modules</i></p> <ul style="list-style-type: none"> Corporate Finance (20 credits) Portfolio Management (BSc) (20 credits) Financial Modelling (20 credits) 	<p>Year 1 (120 credits)</p> <p><i>GSD Modules (60 credits)</i></p> <ul style="list-style-type: none"> Economic Principles of Global Sustainable Development (15 credits) Environmental Principles of Global Sustainable Development (15 credits) Social Principles of Global Sustainable Development (15 credits) Core Global Sustainable Development Project module (15 credits) <p><i>Business Studies Modules (60 credits)</i></p> <ul style="list-style-type: none"> Choice of optional first year modules offered by Warwick Business School <p>Year 2 (120 credits)</p> <p><i>GSD Modules (30 credits)</i></p> <ul style="list-style-type: none"> Health and Sustainable Development (30 credits)

Program Name	Proposed New Program: Bachelor of Science in Sustainable and Green Finance	HKUST: Bachelor of Science in Quantitative Finance (QFIN)	HKUST: Bachelor of Science in Environmental Management and Technology (EVMT)	University of Leeds: Bachelor of Arts in Environment and Business	University of Reading: Bachelor of Science in Finance (Sustainable Finance)	University of Warwick: Bachelor of Arts and Sciences in Global Sustainable Development and Business Studies
	<p><i>(ii) Environment and Sustainability Required Courses (24 credits) - TBD</i></p> <ul style="list-style-type: none"> SUST1000 - Introduction to Sustainability (3 credits) ENVR2XXX - Sustainable Development (TBD) (3 credits) ENVR2XXX - Circular Economy and Life Cycle Assessment (TBD) (3 credits) ENVR3310 - Green Business Strategy (3 credits) ENVR3XXX - Environmental Sustainability Risks and Challenges (TBD) (3 credits) ENVR4XXX - Social Sustainability Risks and Challenges (TBD) (3 credits) ENVR4XXX - National and International Perspective – Governance and Applications (TBD) (3 credits) ENVR4320 - ESG Management and Reporting (3 credits) <p><i>Other Required Courses (19-20 credits)</i></p> <ul style="list-style-type: none"> FINA 2203 or 2303 - Financial Management (3 credits) ISOM2020 - Coding for Business (1 credit) ISOM2500 - Business Statistics (3 credits) ISOM2600 - Introduction to Business Statistics (1 credit) LABU2040 - Business Case Analyses (3 credits) LABU2060 - Effective Communication in Business (3 credits) MATH 1003 or 1012 or 1013 or 1020 or 1023 Calculus (3-4 credits) MGMT2130 - Business Ethics and Social Responsibility (2 credits) <p>Electives Requirements (18 credits)</p> <p><i>Area A: Finance</i></p> <ul style="list-style-type: none"> Any FINA courses at 3000- or 4000-level <p><i>Area B: Sustainability</i></p> <ul style="list-style-type: none"> ENVR1070 - Thinking Big: Systems Thinking for Environmental Problems (3 credits) 	<ul style="list-style-type: none"> SBMT1111 - Business Student Induction (0 credit) LABU2040 - Business Case Analyses (3 credits) LABU2060 - Effective Communication in Business (3 credits) MATH1003/1012/1013/1020/1023 - Calculus and Linear Algebra/ Calculus IA/ Calculus IB/ Accelerated Calculus/ Honors Calculus I (3-4 credits) <p>Major Requirements (41-45 credits)</p> <ul style="list-style-type: none"> FINA2101 - Introduction to Finance (1 credit) FINA3103 - Intermediate Investments (3 credits) FINA3203 - Derivative Securities (3 credits) FINA3303 - Intermediate Corporate Finance (3 credits) FINA3810 - Bloomberg Market Concepts Certification (0 credits) FINA4803 - Quantitative Trading (3 credits) ECON3334 - Introduction to Econometrics (4 credits) ISOM3230 - Business Applications Programming (3 credits) MATH1014/1024 - Calculus (3 credits) MATH2011/2023 - Multivariable Calculus (3 credits) QFIN - Restricted Electives (18 credits) 	<ul style="list-style-type: none"> FINA2203 - Fundamentals of Business Finance (3 credits) ISOM2500 - Business Statistics (3 credits) ENVR 3310 - Green Business Strategy (3 credits) ENVR3410 - Economics for Environment Policy and Management (3 credits) ENVR4320 - ESG Management and Reporting (3 credits) <p>Environment Requirements (21 credits)</p> <ul style="list-style-type: none"> ENVR1170 - Big History, Sustainability and Climate Change (3 credits) ENVR2010 - Environmental Science Fundamentals (3 credits) ENVR2030 - Material and Energy Balance for Environmental Management (3 credits) ENVR3110 - Sustainable Development (3 credits) ENVR3210 - Environmental Technology (3 credits) ENVR3220 - Energy Sources and Usage (3 credits) ENVR3420 - Environmental Law and Regulations (3 credits) <p>Professional Development Courses (11 credits)</p> <ul style="list-style-type: none"> ENVR1001 - EVMT Orientation (0 credits) ENVR2001 - Academic and Professional Development I (1 credit) ENVR3001 - Academic and Professional Development II (1 credit) ENVR4001 - Academic and Professional Development III (1 credit) ENVR4980 - Environmental Management and Technology Capstone Project I (3 credits) ENVR4990 - Environmental Management and Technology Capstone Project II (3 credits) LANG3081 - Communication for Environmental Management and Technology III (2 credits) <p>Elective Courses (12 credits)</p>	<p>equivalent or already have AS Level Maths Grade C or above must NOT enrol in the course.</p> <ul style="list-style-type: none"> An Introduction to Law: What is Law? (10 credits) Introduction to Enterprise and Entrepreneurship (10 credits) Introduction to Management (10 credits) Introduction to Effective Decision Making (10 credits) Organisational Behaviour (20 credits) Natural Hazards (10 credits) Ecology (10 credits) Atmosphere (10 credits) Environmental Politics and Policy (10 credits) <p><i>Discovery Modules (take up to 20 credits)</i></p> <p>The opportunity to broaden the studies beyond the core discipline, as represented by the Discovery Themes, is integrated into many programmes of study within the available combinations of compulsory and optional modules.</p> <p>Year 2 (120 credits)</p> <p><i>Compulsory Modules</i></p> <ul style="list-style-type: none"> Managing Innovation in Business (10 credits) Personal Development for Careers in the Environmental Sector (10 credits) Tools and Techniques for Business, Environment and Corporate Responsibility (20 credits) Research in the Environmental Social Sciences (30 credits) Economics and Sustainability (10 credits) <p><i>Optional Modules (Choose 20 to 40 credits)</i></p> <ul style="list-style-type: none"> International Law (20 credits) Leadership in Business (10 credits) Anthropology for Business (10 credits) Principles of Marketing (10 credits) Principles of Corporate Strategy (10 credits) 	<p><i>Optional Modules</i></p> <ul style="list-style-type: none"> Introductory Econometrics for Finance (20 credits) Trends in Finance (20 credits) FX and International Debt Markets (20 credits) <p><i>Work Placement</i></p> <ul style="list-style-type: none"> Work Mini-Placement (0 credits) <p>Year 3 (Not stated the no. of credits)</p> <p><i>Compulsory Modules</i></p> <ul style="list-style-type: none"> Management of Risk (20 credits) Derivative Securities (20 credits) New Directions in Business and Corporate Social Responsibility (20 credits) Responsible Investment and Sustainability Reporting (20 credits) <p><i>Optional Modules</i></p> <ul style="list-style-type: none"> Financial Engineering (20 credits) Research Project (BSc) (20 credits) Private Equity and Venture Capital (20 credits) Finance and Occupational Pensions (20 credits) Bonds and Money Markets (20 credits) Fintech and Cryptocurrencies (20 credits) 	<ul style="list-style-type: none"> Security, Sovereignty and Sustainability in the Global Food System (30 credits) Inequalities and Sustainable Development: Inclusion and Dignity for All (30 credits) <p><i>GSD Focus Module(s) (30 credits)</i></p> <p><i>Business Studies Modules (60 credits)</i></p> <p>Year 2 (Integrated year with Terms 2 and 3 spent abroad)</p> <p>Term 1 (60 credits)</p> <p><i>GSD module (15 credits)</i></p> <ul style="list-style-type: none"> Health and Sustainable Development (15 credits) Security, Sovereignty and Sustainability in the Global Food System (15 credits) Inequalities and Sustainable Development: Inclusion and Dignity for ALL (15 credits) <p><i>GSD Focus Module (15 credits)</i></p> <p><i>Business Studies Modules (30 credits)</i></p> <p>Term 2 & 3 (Spent abroad)</p> <p>Final Year (120 credits)</p> <p><i>GSD Modules (30 credits)</i></p> <p><i>GSD Focus Module(s) (30 credits)</i></p> <p><i>Business Studies Modules (60 credits)</i></p>

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	<ul style="list-style-type: none"> • ENVR1080 - The Smart Consumer - Uncovering the Hidden Story behind the Product Label (3 credits) • ENVR1170 - Big History, Sustainability and Climate Change (3 credits) • ENVR2010 - Environmental Science Fundamentals (3 credits) • ENVR3220 - Energy Sources and Usage (3 credits) • ENVR3420 - Environmental Law and Regulations (3 credits) • ENVR4480 - Climate Modeling and Risk Assessment (3 credits) 			<ul style="list-style-type: none"> • Advanced Management Decision Making (10 credits) • Climate Change: Society and Human Dimensions (10 credits) • People, Sustainability, and the Environment (20 credits) • Environmental Impact Assessment (10 credits) • Environmental Policy and Governance (10 credits) • Managing Biodiversity (10 credits) • Transport, Energy and Environment (10 credits) <p><i>Discovery Modules (Take up to 20 credits)</i></p> <p>Year 3 (120 credits)</p> <p><i>Compulsory Modules</i></p> <ul style="list-style-type: none"> • International Business Management (20 credits) • Environmental Research Project (40 credits) • Business and Sustainable Development (10 credits) <p><i>Optional Modules (choose 30 to 50 credits)</i></p> <ul style="list-style-type: none"> • Geographers into Teaching: School Placements (20 credits) • Law and the Environment II: Governing the Environment (10 credits) • Environmental Law (20 credits) • Enterprise Consultancy (20 credits) • Current Issues in Decision Making (20 credits) • Managing Innovation and Technology (20 credits) • Environmental Risk: Science, Policy and Management (10 credits) • Sustainable Consumption (10 credits) • Strategic Energy Issues (10 credits) <p><i>Discovery modules (take up to 20 credits)</i></p>		
Website	N/A	http://www.bm.ust.hk/fina/programs/bsc-in-quantitative-finance/bsc-qf-overview	http://www.evm.ust.hk/programs/undergraduate-program/bsc-in-evmt/program-introduction/	https://courses.leeds.ac.uk/a467/environment-and-business-ba	https://www.icmacentre.ac.uk/study/undergraduate/bsc-finance-sustainable-finance#modules	https://warwick.ac.uk/fac/arts/schoolofcross-facultystudies/gsd/prospectivestudents/undergraduate/jointhonours/gsdbusiness