BSc in Environmental Management and Technology (EVMT)

JUPAS code | JS5812

GREEN INSPIRES IDEAS
ADVANCE SUSTAINABILITY IN BUSINESS

Sustainability and the protection of our environment are among the greatest global concerns of today and tomorrow, with an ever-more pressing need to find a balance between human development and environmental well-being.

The pace-setting BSc in Environmental Management and Technology (EVMT) program offers a unique opportunity for motivated students to move ahead in this area, educating a new generation of environmental professionals with cross-disciplinary knowledge to deliver ecologically and economically sound solutions and to take up the role of sustainability managers in corporations in Hong Kong and around the globe. EVMT is accredited by the Hong Kong Institute of Qualified Environmental Professionals (HKIQEP).

INTERDISCIPLINARY STUDY FOR TOMORROW'S LEADERS

CURRICULUM

Drawing on the HKUST’s expertise in science, engineering, management and the social sciences, the EVMT program lets students examine issues from multiple viewpoints, encouraging them to integrate different perspectives into the generation of innovative solutions.

EVMT
- Energy Sources and Usage
- Environmental Economics
- Environmental GIS
- Environmental Law
- Environmental Technology
- ESG Management and Reporting
- Green Business Strategy
- Sustainable Development

Business
- Business Statistics
- Economics
- Finance
- Management

Social Science
- Environmental Psychology
- Policy Analysis and Design for Sustainable Development

Engineering
- Air Quality Control and Management
- Environmental Control
- Environmental Impact Assessment

Science
- Biodiversity
- Chemistry
- Ecology
- Mathematics

CAPSTONE PROJECTS

Capstone project is a core component in the EVMT curriculum that provides final year students with real-world and hands-on experience. A team of 3 to 4 students will work on a corporate-sponsored project in which they can synthesize and apply knowledge from their courses under the supervision of a faculty member.

ACADEMIC YEAR

<table>
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<tr>
<th>Year</th>
<th>Projects</th>
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<tr>
<td>2020-21</td>
<td>• 3D Quantitative Assessment of Light Pollution (ARUP / The Green Earth)</td>
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<td>• Community Air Management (Environmental Protection Department, HKSAR)</td>
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<td>2019-20</td>
<td>• The Future of Renewable Energy and Smart Grids in Jeju Island under Climate Change (Eco Brain)</td>
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<td>• Enhancing Green Collaboration between Building Owners and Tenants (Business Environment Council Limited)</td>
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<td>2018-19</td>
<td>• Compile ESG Database for Hong Kong Companies through Digital Pathways (Fuji Xerox (Hong Kong) Limited)</td>
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<td>• Develop a GHG Emission Factor Associated with Municipal Waste to Landfill (Airport Authority Hong Kong)</td>
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<td>2017-18</td>
<td>• Developing a Hong Kong-specific ESG Index (Allied Environmental Consultants Limited)</td>
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<td>• Analysis of the Municipal Solid Waste Charging Scheme Trial Program in Hong Kong (Greeners Action)</td>
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EXCHANGE PROGRAM

The overseas exchange program provides EVMT students with valuable opportunities to acquire new insights and develop greater independence and confidence. To date, EVMT students have studied at over 40 universities around the world, including the ETH Zurich—Swiss Federal Institute of Technology, KTH Royal Institute of Technology, Leiden University, The University of New South Wales, University of Auckland, University of British Columbia, University of California, San Diego, University of Copenhagen, University of Exeter, University of Pennsylvania, and University of Sussex.

FOSTERING GREATER COMPETITIVE EDGE

The program offers opportunities such as internships and overseas exchange, as well as the training of essential skills such as communication, teamwork and leadership. These experiences broaden students’ world views, making them competitive candidates for key environmental roles in the business, governmental and institutional sectors.

INTERNSHIPS

EVMT students have previously undertaken internships with Adidas Sourcing Limited, AECOM, Airport Authority Hong Kong, Bloomberg, CLP Group, Crystal Group, Environmental Protection Department, Ernst & Young, Hutchison Ports, Roma Group, Swire Properties Limited, and WWF-Hong Kong, among others.
Environmental sustainability is a global challenge and should be a concern of every organization. The complex interface between the environment and the organization is one that requires a blend of skills in both environmental science and management. With integrated academic and practical training, EVMT graduates are uniquely positioned to answer the growing demand for environmental professionals. Graduates can expect to pursue careers in multinational firms, government and non-governmental organizations.

**EMPLOYERS OF EVMT GRADUATES**

**Business and Commerce:**
- Adidas
- Crystal Group
- Hang Seng Bank
- New World Development Company Limited
- Schneider Electric (HK) Ltd.
- Sino Group
- Swire Properties Limited
- UBS Group AG

**Environmental Consultancy:**
- AECOM
- Arcadis
- ARUP
- Hong Kong Productivity Council
- Mott MacDonald Hong Kong Limited
- Ramboll Hong Kong Limited

**NGO/NPO:**
- Civic Exchange
- Hong Kong Green Building Council
- Ocean Park
- Redress Asia
- Teach4HK

**EVMT Graduate Employment Statistics by Sectors:**
- 50% Business and commerce
- 15% Environmental consultancy
- 15% Non-Governmental Organization (NGO) / Non-Profit Organization (NPO)
- 15% Further studies
- 5% Others
WORDS FROM EVMT ALUMNI

Esther KIM (Class of 2021)
Position: ESG Consultant, PwC Korea

My pure passion for the environment motivated me to study Environmental Management and Technology (EVMT). I knew that I was interested in the environment early on as I had led many related activities during high school, including monthly beach clean-ups. However, I didn’t know how I could turn this passion into a career.

For me, EVMT perfectly complemented this future path reflection because I got to explore many different fields of environmental study. I was able to imagine myself as an ESG consultant after studying the Green Business Strategy and ESG Management and Reporting courses. I also thought of working as a lawyer when I was studying Environmental Law and Regulations. Working as a policy maker also seemed fulfilling while I was studying the Economics for Environmental Policy and Management course.

The multidisciplinary curriculum of the EVMT program can certainly guide and prepare anyone who wants to find an environment-related career. I am truly grateful to have studied EVMT at HKUST because I was equipped with sufficient knowledge and background to pursue my dream job in the emerging ESG field.

Michael WANG (Class of 2021)
Position: Management Trainee, John Swire & Sons (H.K.) Limited

EVMT caught my eye with the opportunity it provides students to explore real-world sustainability issues from various perspectives. The curriculum incorporates different disciplines, including engineering, business, and even law and psychology. Courses like Green Business Strategy made me appreciate the complexity of sustainable development, and inspired me to design innovative solutions that balance environmental protection and social development. The comprehensive curriculum equipped me with the skills and courage that I needed to agilely adapt and tackle new challenges in uncharted waters.

Furthermore, the EVMT experience enabled me to structurally formulate and present creative ideas on sustainable development-related issues like energy efficiency and resource conservation—skills which enabled me to shine on international stages, like the grand finals of the global case competition by Schneider Electric in Spain and the Asian University Alliance forum in Kazakhstan. The sustainable and future-oriented mindset that EVMT cultivated in me also laid an exceptional foundation for my career, helping me stand out among graduates at a time when stakeholders are becoming increasingly conscious of their sustainability agenda and are looking for talent with relevant potential.

Karina CHOW (Class of 2021)
Position: Research Analyst, Civic Exchange

Combining different facets of the environment industry, the EVMT program offers a great pathway to the sustainability field. I chose the program because I wanted to know a bit of everything: the science, the engineering, and the business behind it all. I knew that I could always build on this foundation when I find an area I want to specialize in afterwards. Indeed, the study was exactly what I had anticipated. It also helped me further understand my strengths and weaknesses, which was important in determining suitable jobs for me.

I am most grateful for the sheer amount of exposure the program offered. Through the winter trip to Singapore, industry conferences like the BEC Enviroseries, career sharing sessions, and the mentorship program organized by the student society, I gained not only textbook knowledge but also in-depth industry insights. The combination of academic courses, discussion with mentors, and internship experiences led me to discover my interest in the social sciences, particularly in public policy. Thanks to my interdisciplinary background, I am able to pick up new concepts in our increasingly connected world while I continuously acquire new learning in the research field.

Samantha YUEN (Class of 2021)
Position: Management Trainee (Operations), L’Oréal Group

Being a scuba diver, I have always been passionate about protecting the natural environment. However, I am convinced that individual efforts in conserving energy and resources are not significant enough to tackle the problem.

When I was reviewing my JUPAS choices, I came across an alumni testimonial of EVMT and I knew then that this was the major I had been looking for. Unlike other environmental science studies, EVMT positioned itself towards future development, combining Environment, Society, Governance (ESG) elements while specifically focusing on sustainable business and strategy. As I firmly believe that integrating sustainability into business is the critical solution to climate change, I appreciated how the course materials equipped me with the skills and knowledge necessary to connect these two fields. In one of my favorite courses, Green Business Strategy, we investigated different case studies and looked into the challenges encountered by corporates transitioning into a more sustainable business.

Interpersonal and communication skills are highly valued in this major, so we also had opportunities to collaborate and present our deliverables with other classmates. I can proudly say that, after four years of study, I have truly become a more confident speaker and team player.

With its unique insights and instruction, EVMT had given me a competitive edge in the job market and helped me stand out among other candidates. Entering L’Oréal and becoming a Management Trainee was a dream come true. I am now given the opportunity to promote sustainability within the Group by working on packaging and recycling projects.
ADMISSIONS

JOINT UNIVERSITY PROGRAMMES ADMISSIONS SYSTEM (JUPAS) APPLICATION

Prospective local mainstream secondary school students may apply EVMT through JUPAS. Suitable candidates will be admitted directly to EVMT via program-based admission in Year 1. Students who prefer more time to explore their interests can first apply for admission to any of the four Schools (Science (SSCI), Engineering (SENG), Business and Management (SBM) or Humanities and Social Science (SHSS)) at HKUST via school-based admission, and then apply to enroll in EVMT major via the Major Declaration Exercise at the end of the first year of study.

PROGRAM-BASED ADMISSION

EVMT JUPAS code: JS5812

HKDSE subject and level requirements

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<tr>
<th>Language</th>
<th>Subjects</th>
<th>Level</th>
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<tbody>
<tr>
<td>English</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Chinese</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics (Compulsory)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>2</td>
<td></td>
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<tr>
<td>Elective 1</td>
<td>3</td>
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</tr>
<tr>
<td>Elective 2</td>
<td>3</td>
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Remarks:
1) The above subjects refer to Category A subjects. 2) Shortlisted candidates may be invited for an interview.

SCHOOL-BASED ADMISSION

Application via School-based Admission (to one of the Schools)

Successful Admission

Year 1 in SSCI / SENG / SBM / SHSS & Application to enroll in EVMT major

EVMT (Year 2 to 4)

NON-JUPAS APPLICATION

Interested students holding international qualifications, local sub-degree qualifications or post-secondary or other qualifications may submit applications through the HKUST Online Application System. Please visit https://join.hkust.edu.hk/ for details.

Division of Environment and Sustainability

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