Lingnan 嶺南大學 University 香港 Hong Kong



MScSEA

Master of Science in Sustainability and Environmental Analytics

可持续性与环境分析理学硕士

Division of Science 科學教研部

EDUCATION for SERVICE 作育英才・服務社會

关于课程

可持续性与环境分析理学硕士（SEA）是岭南大学开办的一个硕士学位课程，专注于可持续发展及环境数据分析。此课程拥有「可持续城市」和「数据分析」选修模块的独特结构，旨在培养环境数据分析与可持续战略规划的竞争专业人才。学生将深入了解影响可持续发展的社会、经济和环境因素，为应对就业中的挑战做好准备。

此课程将从跨学科的角度提供针对联合国可持续发展目标（SDGs）的教学。

獲录取之SEA申请者将自动具備参加入学奖学金的竞争资格，奖学金将授予优秀的入學者。

学习成果

在完成SEA硕士学位课程后，学生将能够：

- 解释和应用全球环境科学与可持续发展的基础知识
- 应用大数据分析技术进行环境、经济和社会可持续性倡导的专业研究
- 检验绿色和创新思维，以制定实现环境和社会可持续性的大目标
- 批判评估数据分析于促进可持续发展及政策制定的必要性

课程特色

現代焦点 - 各种新兴的可持续领域，例如环境、社会和治理（ESG）、智慧城市、人工智能及地理空间智能

跨学科 - 「可持续城市和社会」和「数据分析」混合式模块，让学生按职业抱负自行选择课程内容

经验主导 - 通过現实世界的具體应用，例如研究及实验、元宇宙之游戏学习、由行业合作伙伴领导的实地考察，实行博雅教育

国际视野 – 学生将在相关的研究工具及行业支援下培养全面的国际视野

课程结构

为達到毕业要求，SEA学生需要完成总共10门课程（8门必修课程及2门选修课程），总计30学分 (如下)。 SEA毕业生的最低GPA要求为2.67。

必修课程

课程	学分
SCI501 可持续发展的地理空间智能	3
SCI502 气候变化与科学	3
SCI503 可持续發展与环境传播	3
SCI504 城市生态學与可持续规划	3
SCI505 环境、社会和治理（ESG）规划	3
SCI507 R统计分析软件 - 有关环境的数据分析与建模	3
SCI508 研究实践：环境、社会及可持续未来的主题探究	3
SCI509 绿色能源与可持续性	3
总学分	**24**

选修课程

课程	学分
学期一 – 可持续城市和社会 (选一)	
HTI503 农村食品-能源-水系统（FEWS）	3
MCG503 历史、遗产与区域	3
学期二 – 数据分析 (选一)	
CDS521 人工智能	3
HAM503 数据分析原则	3
总学分	**6**

就业前景

SEA硕士学位课程的前瞻潜力，在于其连接了**可持续发展的科学和社会维度**，同时结合了**环境科学及可持续分析**。

SEA毕业生將具备广泛的技术和分析技能，讓他们為**可持续发展的重要贡献**做好准备：

- 政府机构
- 国际企业
- 研究机构
- 初创企业（例如：绿色初创公司）
- 更多



SEA硕士学位课程适合以下人士：

- 目前从事创新和技术、人工智能、数据分析和可持续性管理相关职业，或正在寻求这些职业的人士
- 目前正在就读、或寻求关于可持续性和环境管理的专上教育课程
- 对现代可持续方案及数据素养具有浓厚的兴趣，并渴望将专业知识应用于可持续发展及相关目的

就读模式

就读模式	就读年期
全日制	1年
兼读制	2年

入学要求

- 持有获认可香港或海外大学所颁授的学士学位；或持有其他获大学承认的同等学历
- 申请者如毕业于非英语授课的大学，必须符合以下的最低英语能力要求
  - 托福（TOEFL）：笔试总成绩达550分 /网考总成绩达79分; 或
  - 雅思国际英语语言测试（IELTS）总级别6.5或以上; 或
  - 其他同等英语测试证明*
- 能良好运用电脑程式及具有基本数据分析能力

*录取团队将对每个案例逐一考虑。 为更好地评估和了解申请人，团队可能会安排面试。

学费

全日制 / 兼读制: HKD $188,000
申请费用: HKD $400

*优秀的入學者将授予入学奖学金。

网上申请系统
apply.ln.edu.hk/

课程网页
www.ln.edu.hk/scienceunit/sea

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About the Programme

The Master of Science in Sustainability and Environmental Analytics (SEA) is a competitive master's degree programme developed by Lingnan University (LU), focusing on sustainable development and environmental data analysis. With the unique structure of Elective Clusters for "Sustainable City" and "Data Analytics", it aims to develop competitive professionals on environmental data analysis and strategic sustainability design. Students will gain a deep understanding of the social, economic, and environmental factors that influence sustainable development, preparing them for the complex challenges in their careers.

The programme will place immense emphasis on the United Nations Sustainable Development Goals (SDGs) from an interdisciplinary approach.

Admitted SEA applicants will automatically be qualified for competing the entrance scholarship, which will be offered to outstanding admittees.

Learning Outcomes

Upon successful completion of the SEA programme, students will be able to:

- Explain and apply the foundations of knowledge on global environmental science and sustainable development
- Apply big data analytical techniques for professional research on environmental, economic, and social sustainability advocation
- Examine green and innovative skills to develop new initiatives for achieving environmental and social sustainability
- Critically appraise the role and importance of data analytics in contributing to sustainable development and influence policymaking

Why this Programme?

Contemporarily-focused - Various emerging areas of sustainability such as ESG, Smart City, Artificial Intelligence and Geospatial Intelligence for Sustainable Development

Interdisciplinary - Blended modules and distinctive cluster structure for students' choices on career aspirations: "Sustainable City and Society" and "Data Analytics"

Experiential learning - Liberal arts framework through real-world application, for instance, research and laboratory, game-based learning through metaverse, field trips led by industry partners

International insights - Comprehensive global vision with relevant research tools and peer dialogues

Programme Structure

To graduate, SEA students are expected to complete a total of 10 courses (8 required courses and 2 elective courses), amounting to 30 credits as specified in the "Programme Structure". The minimum GPA requirement for graduation will be 2.67 for the SEA programme.

Required Courses

Course	Credit
SCI501 Geospatial Intelligence for Sustainable Development	3
SCI502 Climate Change Literacy and Science	3
SCI503 Sustainability and Environmental Communication	3
SCI504 Urban Ecology and Sustainable Planning	3
SCI505 Introduction to Environmental, Social and Governance (ESG) Planning	3
SCI507 Data Analysis and Modelling in the R Statistical Environment for Environmental Issues	3
SCI508 Practical and Research Training: Topics in Environment, Society, and Sustainable Future	3
SCI509 Green Energy and Sustainability	3
Total Credits	**24**

Elective Clusters

Course	Credit
Term 1 – Sustainable City & Society Cluster *(choose one)*	
HTI503 Rural Food-Energy-Water Systems (FEWS)	3
MCG503 History, Heritage and Regional Perspectives	3
Term 2 – Data Analytics Cluster *(choose one)*	
CDS521 Foundation of Artificial Intelligence	3
HAM503 Principles of Data Analytics	3
Total Credits	**6**

Career Prospects

The SEA programme stands out by linking of the **scientific and social dimensions of sustainability**, and by combining **environmental science and sustainability analytics**.

SEA graduates possess a wide range of technical and soft analytical skills, which prepare them to make **significant contribution and addition** to sustainable development initiatives under:

- Government Agencies
- International Organisations
- Research Institutions
- Entrepreneurial Ventures (for example: green start-ups)
- Many more



The Programme is suitable for individuals who ...

- Are currently in, or seeking for professions under innovation & technology, artificial intelligence, data analytics and sustainability management in related enterprises
- Are currently in, or seeking for advanced studies on sustainability and environmental management that are crucial in current / pursuing positions
- Possess great interest and passion in contemporary sustainability solutions and data literacy and aspires to apply the professional knowledge in sustainability advocation

Mode of Study

Mode of Study	Normal Study Period
Full-time	1 year
Part-time	2 years

Entry Requirements

- Hold a relevant bachelor's degree from a recognized education institution
- If the Bachelor's degree or equivalent qualification is awarded by a non-English medium institution, applicant is required to have:
  - TOEFL: minimum score of 550 (paper-based test) or 79 (internet-based test); or
  - IELTS: minimum band score of 6.5 or above; or
  - An equivalent score in a recognised test *
- Master basic computing knowledge, and basic understanding of data analysis preferred.

**Cases will be considered on a case-by case basis by the Admission Team. Interviews may be arranged to better assess and understand the applicants.*

Tuition Fee

Full-time / Part-time Mode: HKD $188,000
Application Fee: HKD $400

*Entrance scholarship will be provided for outstanding admittees.

Online Admission System
apply.ln.edu.hk/

Programme Website
www.ln.edu.hk/scienceunit/sea

Contact Us

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