Division of Emerging Interdisciplinary Areas

MAJOR +x

A MULTIDIMENSIONAL ACADEMIC APPROACH TO ENRICH YOUR TRADITIONAL MAJOR



EXTENDED MAJOR PROGRAM



Artificial Intelligence (AI)



Sustainability (SUST)



Creative Arts and Digital Humanities (CADH)

Technology is advancing faster than ever and shaping the rules and future of our society. Society needs talents with multidimensional vision and knowledge who can apply innovative technological skills to solve real-world problems. Division of Emerging Interdisciplinary Areas (EMIA) proposes to enrich existing majors, including future ones in science, engineering, and business, by extending student learning through the Extended Major Program "Major+X".

- **Innovative**
- **Emerging Area of Significance**
- **Relevant to Current Needs**
- **Critical to Future Breakthroughs**
- **Knowledge of Various Disciplines**
- **Organic Study Pattern**



A NOVEL ACADEMIC FRAMEWORK

What is Major+X?

The Extended Major provides a more flexible learning mode for students of different disciplines, who can learn solid knowledge from their own majors, as well as innovative applications of "X" in professional fields such as artificial intelligence and other emerging hotspots.

Curriculum Framework

The curriculum of an Extended Major should comprise 21-24 credits, with **TWO** compulsory courses in Cross-disciplinary Seminar and Cross-disciplinary Design Thinking. In addition, the capstone project of the students' Major should include elements of "X".

Major+AI

- Cross-disciplinary Seminar
- Cross-disciplinary Design Thinking
- Fundamentals of AI
- Practical Machine Learning
- Sustainability Fundamentals
- Environmental Risks: Principles and Practices

Major+SUST

- Introduction to Artificial Intelligence
- Art and Digital Culture
- Music / Arts / Literature Courses
- Capstone Projects
- Electives Courses in AI/SUST/CADH

Major+CADH

Admission Requirements

Major+ SUST/CADH will admit HKUST students only. Students will declare their intention to enroll in SUST/CADH via the opt-in arrangement during Year 1 Summer Term or Year 2 Winter Term.

For students interested in Major+AI should declare their extended major when they are admitted to HKUST, or via the opt-in arrangement via respective schools upon admitted to HKUST.

Both extended major in AI, SUST and CADH are designed for students with a basic knowledge of Calculus and Computer Science, but are also open to other students who may need to take additional courses to gain the relevant foundation.

香港科技大學
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Contact: +852 3469 2947
Website: emia.hkust.edu.hk
Email: emia@ust.hk