

ERMT 3145 Urban Development and Environment (3,*,*) (E)

Urban development is among the most pervasive and ubiquitous forms of land cover change. Thus, urbanization poses significant challenges to many organisms, including humans. This course will focus on the global urbanization and urban developmental impacts on the 1) patterns of abundance and distribution of organisms in urban ecosystems; 2) the interactions among organisms in the urban environment; 3) the interactions between humans (and societies) and nature in urban environments; and 4) some aspects of urban planning as it relates to ecology and the environment.

ERMT 4005 Environmental Impact Assessment and Management (3,*,*) (E)

The course aims to develop an understanding of environmental impact assessment (EIA) and the EIA process in Hong Kong. Emphasis will be placed on the requirements and components of an EIA report including air, noise, water, waste management, environmental risk, ecological impact, and socio-economic impact assessments. In addition, the course examines environmental law, environmental management and the importance of public participation. Case studies in Hong Kong will be used as comparison with EIA in other regions (e.g. Mainland China).

ERMT 4008-9 Honours Project I & II (3,*,*) (E)

The Honours Project is an extensive piece of work that aims to develop students' ability to work independently. As such, a major objective is to develop a variety of practical skills relevant to Environment and Resources Management and which are of particular value to employers. It is also intended that the project should enhance a student's confidence to work by himself/herself. In this course, students will undertake an environmental research project under the supervision of a faculty member. Research work will commence during the summer vacation immediately preceding the student's final year. Students will meet periodically with the supervisor to discuss and interpret their research data. These discussions will culminate in the production of a comprehensive written report which will be submitted for assessment at the end of the student's final term of attendance.

ERMT 4015 Advanced Topics in Environmental Planning and Management (3,*,*) (E)

Environmental management has evolved from a popular movement to a profession, demanding complex analytical and decision-making skills. These skills are essential to the development and implementation of policies about the impacts of human activity on the natural environment. Scientific, legal, administrative and political factors shaping these policies and public attitudes are critical components of environmental management and planning.

Consequently, this course aims to provide students with an understanding of the principles behind planning, public administration and political approaches that are important for the protection of environmental resources in urban and natural environmental contexts. This course aims to develop 1) student abilities in measuring air and water quality, water supply safety, environmentally sensitive natural resources, and solid and hazardous wastes; 2) an understanding of global and trans-national problems, such as global warming, ozone depletion and acid rain, and energy usage; and 3) abilities to critically assess environmental policy and management issues.

ERMT 4105 Biodiversity and Conservation (3,*,*) (E)

Prerequisite: ERMT 3065 Terrestrial and Aquatic Ecology
This course aims to introduce students to the need for biodiversity conservation and its implementation. Threats to biodiversity will be introduced and discussed with a basic overview of relevant ecological and population genetic processes. Biodiversity conservation at species, population and community levels will be introduced and discussed, with an emphasis on the interplay of socio-economic, political, and cultural factors. Students will be introduced to the principles of biodiversity conservation through lectures, group discussions, field visits, and reflective essays.

ERMT 4115 Energy Audit and Carbon Management (3,*,*) (E)

Prerequisite: ERMT 2005 Global Environmental Issues
This course focuses on the quantification of energy usage and the management of greenhouse gas emissions. It explores basic concepts and models in energy auditing and carbon management. Hands-on experience and field study are provided to help students to develop basic skills in energy and carbon auditing, including survey instrumentations used, measurement standards and protocols.

ERMT 4125 Environmental Law, Policy and Ethics (3,*,*) (E)

This course aims to help students to develop knowledge of laws, policies and ethics related to environmental protection. The course will analyze the relationship between economic growth, environmental justice and sustainable development, and evaluate different theories concerning environmental ethics and their implications for legislation and public policy formulation in relation to the environment. Students will learn how to analyze different environmental issues and problems in both Hong Kong and overseas, consider the application of legislation and policy options in response to these issues and problems, and become competent in dealing with environmental management in Hong Kong.

ERMT 4135 Green Industry and Business Management (3,*,*) (E)

This course introduces various conflicting ideas regarding economic development and environmental degradation, and whether the technological advances hold the key to saving the environment. It aims to examine the roles of business sectors and that of the general public in reducing the burden on the natural environment and in achieving a sustainable environment, by adopting best international practices. The implications of adopting new management approaches in terms of profits and for the environment will also be reviewed. The course will introduce the possibilities and practices related to the greening of business management at all stages - from production inception to the final product, It will also include the basic concepts of the life-cycle analysis. In addition to learning fundamental concepts and principles, students will study a wide spectrum of literature, case studies and government reports, and will be trained to analyse cases of special environmental interest in order to develop independent thinking.

ERMT 4145 Integrated Waste Management (3,*,*) (E)

This course aims to provide students with a broad awareness of the framework of solid waste management and related issues. Particular attention is focused on the concepts of source reduction and waste reduction programs in the SAR.

ERMT 4155 Restoration Ecology and Habitat Management (3,*,*) (E)

Prerequisite: ERMT 3065 Terrestrial and Aquatic Ecology
This course is a broad overview of the interdisciplinary topic of ecological restoration and habitat management. Students will be introduced to the rapidly expanding discipline of restoring degraded ecosystems through lectures, group discussions, field visits, restoration plans, and reflective essays. The course will focus on ecological theory and how to apply theory to the implementation of restoration and habitat management; philosophical debates concerning restoration and habitat management; societal influences on restoration decision making; and restoration planning and implementation strategies.

ERMT 4165 The Pearl River Delta: An Environmental Survey (3,*,*) (E)

This course aims to introduce students to the perspectives and knowledge needed to understand the growing socio-economic and environmental interactions within the Pearl River Delta (PRD) Region (including Hong Kong and Macau). Emphasis will be placed on providing experiential learning experience to