



LUNDS
UNIVERSITET

Internationella Institutet
för Industriell Miljöekonomi

The programme is built on the following four segments:

- **Introductory Block** (30 ECTS, Distance course)
- **Advanced Block** (30 ECTS)
- **Applied Block** (30 ECTS)
- **Master's Thesis** (30 ECTS).

Timeline

The Introductory block begins in mid-October 2012 and is finalized nine months later in June 2013. The Advanced block runs from late August 2013 through the rest of the year and the Applied block begins in January 2014 and ends at the end of May. The Thesis research preparations are initiated during the Advanced Block and continue off-campus from the end of May. The Thesis is prepared and defended the last week of September, and Graduation takes place in the beginning of October 2014.

The four segments

I. INTRODUCTORY BLOCK

The courses in the introductory block provide a basic understanding of the key subjects that are required for an integrated, multi-disciplinary, perspective to environmental management and policy. The various subjects link on to more in-depth teaching in the consequent parts of the programme. The block is delivered as a distance course.

- Introduction to studies in Environmental Management and Policy (2 ECTS)
This course introduces the participants to the masters programme in general and particularly to the basic distance block, including a topical introduction and a more technical part covering communication methods and information sources.
- Environmental science and sustainable development (8 ECTS)
This course aims to give the student a basic ecological literacy and provides a basic natural science perspective on the character and magnitude of to the environmental and social challenges that are facing mankind.
- Business fundamentals (6 ECTS)
Basic business functions with relevance to environmental management are introduced and discussed in this course. Course components include control, decision-making, budgeting, accounting, investment, strategy and corporate social responsibility.
- Principles of technical systems (6 ECTS)
Key areas of environment-related technical systems are dealt with in

this course: energy systems at industrial and societal levels, waste management, water management, and separation techniques. The format is case studies combined with basic concepts on the functioning of key technical unit operations.

- **Economics, consumption and society (5 ECTS)**
This course provides the fundamentals of economic analysis about market economies, with focus on demand, supply and price, followed by an introduction to Environmental Economics, where tragedy of the commons is analyzed. A short introduction is also given to economic valuation methods and cost-benefit analysis. The course also includes a module on the environment and consumption problematic, where key issues in the debate around sustainable consumption systems are introduced and discussed.
- **Learn, apply and communicate (3 ECTS)**
This course brings together the first distance semester in a thematic cross-disciplinary assignment. It is the first opportunity for the student to practice applied research in the programme, and it is a key opportunity to learn how to present and interact using distance platforms. It is finalized in a web-based conference where all participants contribute.

II. ADVANCED BLOCK

The advanced block is the first part of the programme that is delivered on-site in Lund. Based on the platform created in the preceding distance block, the focus here shifts to understanding key strategies on how to intervene in and improve systems of production and consumption.

- **Introduction to Sustainable Consumption and Production (2 ECTS)**
This course consists of a comprehensive introduction to preventive environmental strategies and approaches.
- **Environmental Assessment Methods (7 ECTS)**
The course is designed to provide students with an understanding of how anthropogenic impacts on the environment may be evaluated. The subject matter will include a treatment of natural science, economic and technological frameworks for analyzing environmental problems, and will also deal with relevant tools (such as Life Cycle Analysis and Cost-Benefit Analysis) that are currently used in the evaluation of environmental impacts.
- **Industrial Sustainability Strategies (11 ECTS)**
This course presents strategies and activities from a corporate perspective. The scope of the subject ranges from the broad understanding of ecological sustainability of organizations and industries, to the development of specific managerial tools and methods that can be applied to improve, measure, and communicate environmental performance. The course includes topics such as Optimization of technical systems, Environmental management, Strategic environmental management, and Eco-design; supplemented by a range of study visits for first-hand insight into current practice in production and consumption systems.

- Corporate environmental management in practice (5 ECTS)
Group assignment where students assess environmental management practices in a local reference company or other organisation. The course includes work on-site on the companies, analysis, report writing and presentations to the companies and course participants.
- Policies and Approaches for Sustainability (PAS) I (5 ECTS)
The PAS I course deals with the measures and activities initiated on a societal level, by national and local authorities, international agencies and similar organizations. PAS I starts with a module giving an overview of preventive environmental policy instruments and the fundamentals of environmental law and policy. Economic instruments, including environmental taxes and charges, deposit-refund systems, and emissions trading, is the focus of the other module of the PAS I course. Instruments include such for energy policy and policy for sustainable housing.

III. APPLIED BLOCK

In the Applied block the understanding created in the previous blocks is taken further and there are more regular references to research in the field. The main lines of development are (1) on individual research, and (2) on practical work in collaboration with business and municipal actors.

- Policies and Approaches for Sustainability II (5 ECTS)
The PAS II course consists of three modules. It starts with a module focusing international policy and law, with an individual student assignment presented orally and in written. The second module focuses policies in the fields of energy and climate change. The third module is devoted to the issues of how policy, law and economics interact, with some examples from environmental product policy.
- Applied Research in Sustainable Consumption and Production (8 ECTS)
This course aims to introduce the students into specific research areas in the field of sustainable consumption and production. The format is common lectures for the areas, followed by individual research papers under supervision of IIIEE researchers, and common discussions/seminars. The research areas are linked to on-going research at the IIIEE.
- Strategic Environmental Development (9 ECTS)
The SED course aims at training students in their skills for practical analysis and for assisting clients (including municipalities, industrial and business clusters, large-scale enterprises and development project managers) on strategies for improved sustainability. The intention of the SED course is thus to explore the practical application of sustainability concepts, tools and strategies on real “systems of production and consumption” in a regional context. In this course, the students improve their theoretical knowledge and develop a practical understanding of how to systematically approach, analyze and intervene in a real-life complex system to

identify desired outcomes and necessary actions. Field studies, interaction with stakeholders, workshops and reporting are core activities of this course.

- Applied Research Methods (8 ECTS)

This course teaches how to research and prepare research papers, including elements such as information gathering using e.g. interview techniques and literature studies, formulation of research tasks, etc. Core issues are practiced in real exercises linked to other parts of the programme, such as the thesis project.

Within the course a student-led exercise is carried out. Students take initiative and organize themselves around topical issues they feel deserve further attention within the programme. The format includes several different potential delivery modes, including internal seminars, workshops and web-conference. Audiences include alumni (web-based) and local business contacts.

IV. THESIS

The thesis work (30 ECTS) is an individual research task focusing an aspect of preventive environmental strategies or approaches, resulting in a thesis of high quality. Students will be encouraged to select thesis subjects related to their home countries, and linked to industries, authorities or organisations active in these countries. For the thesis work, the Institute will encourage and try to facilitate the involvement of advisors active in the countries and organizations in question. These advisors will work in close co-operation with the main responsible advisor at the Institute. Many of the theses written by former students have been developed in co-operation with and for organizations and industrial enterprises. The thesis projects are normally linked to research at the IIIIE.