SUSTAINABLE URBAN DESIGN

International Master's Degree Programme
School of Architecture, Lund University
The Technical Faculty at Lund University in Lund, Sweden provides excellent resources for studying diverse aspects of sustainability and design. The School of Architecture and Built Environment has a well-established reputation for developing humanistic values in modern designs by promoting livability, inclusiveness, and social sustainability.

Design projects as well as theoretical courses in the master’s programme are carried out in close collaboration with a number of faculties, private actors, and public institutions such as Landscape Architecture at SLU Alnarp, Malmö City Planning Office, Faculty of Engineering at LTH, and the Ax:son Johnson Institute for Sustainable Urban Design.

Lund also has the huge advantage of being located in the dynamic Öresund region, a global leader in balancing urban economic growth and environmental conservation. A clean environment is a top priority in Sweden and the rest of Scandinavia alike, and they are recognized around the world for their strong environmental stand.

Peter Siöström
Director and Founder
Sustainable Urban Design Programme
School of Architecture
Lund University, Sweden
SUSTAINABLE URBAN DESIGN

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Lund University
The School of Architecture and the Built Environment

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Lund University unites long-standing traditions with a modern, dynamic and highly international profile.

With eight faculties, and a number of research centres and specialised institutes, Lund University is the largest provider of research and higher education in Sweden. It was founded in 1666 and is one of the oldest universities in northern Europe. At present, nearly 38,000 undergraduate and 2,300 postgraduate students are enrolled at Lund University.

Lund is located in southern Sweden, right next door to Denmark. The Danish-Swedish Öresund Region is one of Europe’s most dynamic areas. In Lund, ‘abroad’ is close by: a trip by train or car to the largest Scandinavian city, Copenhagen, takes only 40 minutes over the Öresund Bridge, while Malmö, the third largest city in Sweden, is only a 15 minute train ride away.

Lund is well known for its dynamic student life, and traditional student societies, organising activities to suit every taste. The dominance of the student population and the wide range of student associations and organisations enrich the cultural climate of both the university and the city.
The education focuses on the design of urban places and environments both in a practical and theoretical way. SUDes deals with subjects related to sustainable urban design, such as environmental planning, city and regional planning, urban design, urban space analysis, urban heritage, and urban sociology.

Students learn about the means and methods of urban sustainability and acquire urban design skills. With an interdisciplinary approach, in an international setting SUDes delves into concepts of sustainability and encourages ongoing discussion and exploration.

The sustainability perspective is approached from various angles. With lectures and seminars including architects, city planners, engineers, social scientists and other professionals from around the world, students are involved in the critical analysis and discourse of sustainability.

The master’s courses are also open to students outside of the programme, creating a unique setting of participants from architecture, landscape, and physical planning schools.
The master’s degree programme in Sustainable Urban Design aims at producing highly skilled and creative professionals capable of making the world’s growing cities into healthy, attractive and sustainable places.

The two year, studio-based programme of study equips students to manifest their social, economic and environmental intentions into spatial design. The scale and context of the projects develops each semester, to provide students with experience in various realms of urban design; from local urban recycling, to global urban dynamics.

As this is an advanced level programme, studies require a high level of independent work, where students take responsibility for their own learning process. It is important for students to keep an open and lively discussion about their work with teaching staff and peers.

Drawing on best practices and advanced research into urban form, urban quality, and sustainability, students design new neighbourhoods for decaying urban districts as well as improved structures for regional landscapes. Study trips to urban developments in Europe provide opportunities for students to learn from both historic precedents and the newest practices. They are introduced to tools and policy for practical implementation.
Lectures and seminars provoke discussion into theories and ideologies of cities and sustainability. With an international student body, the discussions are expanded to include cultural dynamics and experiences from around the globe. The parallel courses consist of lectures and text seminars with theoretical input from various fields concerning different aspects of sustainability as well as inspirational examples of urban renewal.

With regular critique sessions and presentations, students develop analytical and critical skills, as well as representational and communicative techniques. Internationally recognised visiting professors and lecturers are invited to take part in workshops and critiques.

Ongoing collaboration between the SUDes programme and international universities, local Swedish municipalities, and leading architecture firms, creates an open and creative school of thought.
The master’s programme is divided into four semesters, each with a specific design question and scope. During each semester students work on multiple scales, from 1:50 to 1:5000, creating both overall strategies and detailed spatial solutions.

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**Sustainable Urban Design Programme**
Semester One: Urban Recycling

In the first semester the focus is Urban Recycling. This set of courses serves as an introduction to the concepts of urban structure and the possibilities for reuse of urban forms. The study trip has been to Amsterdam, The Netherlands, and Freiburg, Germany. The studio project looks at the scale of the neighbourhood, and challenges students to adapt a post-industrial area of a Swedish city.

Sustainable Urban Recycling Design Studio (18hec)

The aim of this course is to develop skills in designing strategic visions for sustainable built environments in a local perspective with reference to current international trends relating to processes of urban transformation.

Urban Quality and Urban Form (6hec)

The aim of this course is to develop the ability to understand, analyse and evaluate artistic aspects and means of expression related to urban design.

Sustainable Urban Recycling Theory and Methods (6hec)

The course sets out to develop knowledge about the theoretical premises for recycling and adaptation in urban contexts.
In the second semester the focus is Urban Landscape. In this semester students are challenged with regional urban planning, and to consider the broad landscape ecology of the site. The studio project looks at regional landscapes in Sweden, and methods for incorporating cultural and natural significances of the landscape into the city.

**Sustainable Urban Landscape Design Studio (18hec)**

The aim of this course is to deepen the understanding of landscape components as a point of departure for design. The course helps the student become familiar with planning strategies for sustainable environments in a regional perspective.

**Sustainable Urban Landscape Theory and Method (6hec)**

The course sets out to develop knowledge of the theoretical premises for sustainable design in rural contexts as well as in transition zones.

**Landscape Architecture and Gardens (6hec)**

The aim of the course is to develop knowledge about the importance of the landscape, the urban green structure and the garden for healthy and attractive living environments.
Semester Three: Urban Dynamics

The third semester deals with Urban Dynamics. The challenge is to gain an understanding of global processes and the results for urbanization. The study trip is to China. This challenging final studio results in proposals for urban development considering environmental, social, and economic factors.

Sustainable Urban Dynamics Design Studio (18hec)

The course sets out to develop skills in analysing a selected urban area that is subjected to the pressure of change in a global perspective. Strategies are proposed for a large scale area in addition to producing an advanced, detailed design proposal.

Sustainable Urban Dynamics Process and Method (6hec)

The aim of the course is to deepen knowledge about the implementation of projects fostering sustainable urban development and to enhance the student’s ability to reflect critically about processes of urban change.

Urban Process Theories and Tendencies (6hec)

The aim of this course is to enhance orientation regarding current trends in the theory and practice of urban planning.
Curriculum

Semester Four: Design Thesis

Master’s Degree Design Thesis (30hec)

The individual, master’s degree design thesis is to be viewed as a bridge into professional practise. Students create their own program for investigation, and may carry out the study in a country of their choice.

Refining Suburban Qualities
   author: Jule Sophie Wittorf
   site: Copenhagen, Denmark

The Ecology of Public Urban Space
   author: Carley Friesen
   site: Malmö, Sweden
Integrating Scales in the Public Realm  
author : Ashwin Karjatkar  
site : Bangalore, India

Tools for Creating Hybrid Urban Spaces  
author : Mohammad Zanjanian  
site : Malmö, Sweden

Living the Productive Landscapes  
author : Yuan Xiaoyuan  
site : Beijing, China

Towards Equality and Security  
author : Yatwan Hui  
site : Guayaquil, Ecuador
A study trip each semester is a vital part of the education and broadens the student’s view of urban design.

Study trips typically involve urban analysis, visits to architectural firms in the study region, and workshops often organized with participating universities.

The Netherlands\Germany
The study trip for the course Sustainable Urban Recycling travels to a historical European city. Amsterdam and Freiburg are both examples of cities where the historical city centre also shows modern adaptations.

Scotland
The course Sustainable Urban Landscape includes a study tour to the Edinburgh region where the urban design is dramatically dependant on the landscape.

China
The course Sustainable Urban Dynamics includes a study trip to an international destination to study the global impacts and realities of urbanization.
The SUDes programme invites interdisciplinary lecturers to enrich the course content each year.

Klas Tham
Prof. Emeritus, School of Architecture, LTH
Senior Advisor, Gehl Architects, Denmark

Li Dihua
Prof. Graduate School of Landscape Architecture
Peking University, Beijing China

Dr. Fran Tonkiss
Director, Cities Programme
London School of Economics, United Kingdom

Per Friberg
Prof. Emeritus, Alnarp School of Landscape
Landscape Architect, Sweden

Christer Ljungberg
CEO, Trivector traffic AB, Lund Sweden

Christophe Cornubert
Architect and Director of Push Architecture
Los Angeles USA

David Garcia
Associate Architect at Henning Larsen Architects
Copenhagen Denmark

Han Xi-Li
Landscape Architect, Turenscape
Visiting Scholar, Peking University, Beijing China
The SUDes programme recognizes the importance of encouraging urban design education in the community.

The program strives to exhibit material from each studio in the community with which it was produced, and within the faculty of architecture.

Creating partnerships with art and design galleries, and with municipalities, the students from the SUDes programme are engaged with the public and with the design community. Work produced for the studio projects is used to present imaginative examples of sustainable urban design to the public. Exhibitions are often accompanied by public events and openings.

SUDes work has appeared in Malmö, Lund and Landskrona municipalities, at the Form and Design Centre in Malmö, the Virserum Art Museum.

In 2010 the work from the Sustainable Urban Dynamics studio was presented at the Shanghai World Expo 2010. The exhibition was part of Architecture week and was set up in the Swedish Pavilion. The work was presented in partnership with GSLA Peking University and the City of Malmö.
Harrison Fraker, is recognized as a pioneer in passive solar, day lighting and sustainable design research and teaching. He has pursued a career bridging architecture and urban design education. He teaches design studio and believes in integrating pragmatic and theoretical analysis.

Professor Lyndon’s work as an architect, author and educator concerned with the design of places has been widely recognized. His architectural practice has included the Sea Ranch CA, with Moore Lyndon Turnbull Whitaker, which received the 25 year Award from the AIA.
The department of Sustainable Urban Design hosts an annual international workshop conference on topics concerning different aspects of sustainable urban design.

The SUDes workshop conference brings together international planning and design professionals and academics from Sweden, Denmark, China and the United States. The overall objective of the workshop conference is to provide a forum for the exchange of ideas and knowledge on issues concerning sustainable urban design and to showcase successful built examples from around the world.

Each year the conference consists of a lecture series followed by a twenty-four-hour workshop. Approximately two hundred students participate, from four different universities, along with over twenty professional practitioners.

The result of the workshop is a series of proposals which address the design challenge, or theme of the conference. The proposals show a high level of discussion and ingenuity, and give students experience in working in interdisciplinary teams, and with an intense time schedule.
Past conference speakers include:

- Jeppe Aagaard Andersen
  JAAA Architects, Helsingør DK

- Ellen Dunham-Jones
  Prof. School of Architecture
  Georgia Institute of Technology, USA

- Andres Duany
  Duany Plater-Zyberk & Company, USA

- Anette Grönbaek
  Schmidt Hammer Lassen, DK

- Douglas Kelbaugh
  College of Architecture and Urban Planning
  University of Michigan, USA

- Nina Mathiesen
  Cobe, DK

- Jens Kvorning
  Prof. School of Architecture,
  Royal Danish Academy of Fine Arts, DK

- Dorte Mandrup
  Dorte Mandrup Arkitekter, DK

- Kristian Skovbakke Villadsen
  Gehl Architects, DK
Internationalization is one of Lund University’s strategies to achieve the vision of standing among the very best European universities.

Lund University welcomes over three thousand international master’s and exchange students to Sweden every year.

The International Master’s Degree programme in Sustainable Urban Design at Lund University prides itself at having a high diversity within the student body. Students of the programme also come from diverse design backgrounds, including landscape architecture, architecture and city planning.

This diverse community enriches the design education. Students present examples of urbanism, architecture and culture from their home countries, and these experiences enrich the discourse of the programme.
The SUDes programme has professional collaborations with other universities, architecture offices, and municipalities including, Malmö City, Peking University, and the University of California, Berkeley.

Study trips and workshop opportunities bring the SUDes programme to cities and universities, including Amsterdam, Shanghai, and Hong Kong.

The SUDes programme welcomes international master’s students each year. Every semester the programme also welcomes ERASMUS students from architecture schools throughout Europe.

Lund University is located in Sweden and within the dynamic Öresund region.
The experienced SUDes faculty has specialists within architecture, urban design, and landscape architecture.

Many members of the faculty are associated with architecture firms around the region, and actively involved in the design community.

Faculty members have connections with firms, and invite guest architects for lectures on relevant topics such as competitions or current urban planning projects.
We look forward to hearing from you.

For information on applications, detailed course descriptions, or questions regarding collaborations and partnerships, please visit the website or contact us.

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The SUDes programme encourages international students to apply. The courses are also open for Erasmus and exchange students. Please contact the International Coordinator.

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