Course Handbook

Greening the Economy: Sustainable Cities
A Massive Open Online Course

April 2017
http://www.coursera.org/learn/gte-sustainable-cities/
About this Course

How can we shape urban development towards sustainable and prosperous futures? This course explores sustainable cities as engines for greening the economy. We place cities in the context of sustainable urban transformation and climate change. Sustainable urban transformation refers to structural transformation processes – multi-dimensional and radical change – that can effectively direct urban development towards ambitious sustainability and climate goals. We connect the key trends of urbanization, decarbonisation and sustainability. We examine visions, experiments and innovations in urban areas. We look at practices (what is happening in cities at present) and opportunities (what are the possibilities for cities going forwards into the future).

We bring together a collection of diverse short films and key short readings on sustainable cities as well as interactive forums and a practical assignment to create an online learning community. This course provides key examples of activities to promote sustainable cities in Scandinavia, Europe and around the world. We utilize films and reports by WWF, the Economist Intelligence Unit, ICLEI – Local Governments for Sustainability, UN-Habitat, C40 Climate Leadership Group, Arup, Sustainia, the Rockefeller Foundation, and ongoing research projects.

This course is produced by Lund University in cooperation with WWF and ICLEI. It is available for free to everyone, everywhere! The International Institute for Industrial Environmental Economics (IIIEE) at Lund University is an international centre of excellence on sustainable solutions. The IIIEE is ideally suited to understand and explain the interdisciplinary issues in sustainable cities and greening the economy utilising the diverse disciplinary backgrounds of its international staff. The IIIEE has been researching and teaching on sustainable solutions since the 1990s and it has extensive international networks connecting with a variety of organizations.

Feedback on the Course

“Excellent course, with very informative and captivating lectures and videos.”

“I have already tried several courses but this one is a game changer! Highly recommended!”

“It is a very important course! I love it! The material is amazing!”

“Thank you so much for your time and effort in putting this course together. It was a huge inspiration.”

“I thoroughly enjoyed learning about the concepts, experiments, and initiatives on urban sustainability in Scandinavia and around the world.”
Outline and Objectives

This course explores sustainable cities as engines for greening the economy. We place cities in the context of sustainable urban transformation and climate change. We connect the key trends of urbanization, decarbonisation and sustainability. We will examine visions, experiments and innovations in urban areas. We look at practices (what is happening in cities at present) and opportunities (what are the possibilities for cities going forwards into the future). We bring together a collection of diverse short films and key short readings on sustainable cities as well as interactive forums and a practical assignment to create an online learning community.

The course has three overall course objectives:

- Increased knowledge on how to design and develop sustainable cities.
- Deeper understanding of the relationship between visions, experiments and innovations in creating sustainable cities.
- Improved critical thinking on the opportunities and challenges for sustainable cities.
Timeline

The course consists of five modules, each running for one week. The timeline for the course and its modules as listed below is only a recommendation, as this is an on-demand course, but we are convinced that you will benefit from following the suggested pace and logical structure of the course. There are soft deadlines (SD - see figure below) and if you fail to meet these deadlines you will be automatically notified. However, you will not be penalised for missing a deadline, except for missing the hard deadline (HD - see figure below) at the end of the course.

<table>
<thead>
<tr>
<th>Day</th>
<th>Entry open</th>
<th>Quiz 1</th>
<th>Quiz 2</th>
<th>Quiz 3</th>
<th>Quiz 4</th>
<th>Quiz 5</th>
<th>Assign</th>
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<tbody>
<tr>
<td>1. Sustainable Urban Transformation</td>
<td>Mon</td>
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<td>2. Infrastructure and Planning</td>
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<td>3. Urban Living Labs</td>
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<td>4. Future Urban Visions</td>
<td>Mon</td>
<td>Tue</td>
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<td>5. Sustainable Urban Life-styles</td>
<td>Mon</td>
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Module 1 – Sustainable Urban Transformation

The expected learning outcomes for this week are increased knowledge and a deeper understanding of sustainable urban transformation and sustainable cities.

Study activities in this module:

- Watch the introductory video: About the Course
- Get yourself familiar with the course by checking out the documents: Course Syllabus, Grading, Readings, About the Team. Take a quick glance at the Green Urban Initiative assignment in Module 2 to see what is to come.
- Watch the lecture videos in Module 1
- Read the introductory literature: i) Cities and Climate Change; The Great Decarbonisation Challenge and ii) Advancing Sustainable Urban Transformation
- Read the course literature for this week: Sustainable Urban Transformation and the Green Urban Economy
- Engage in forum discussions - you can start by presenting yourself in the General Discussion forum!
- Take Quiz 1

<table>
<thead>
<tr>
<th>#</th>
<th>Video Title</th>
<th>In this film you will learn about:</th>
<th>Presenters/Producers</th>
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</thead>
<tbody>
<tr>
<td>0L0</td>
<td>Greening the Economy: Sustainable Cities</td>
<td>…what this course is about and why sustainable cities are critical to greening the economy and responding to climate change.</td>
<td>Kes McCormick</td>
</tr>
<tr>
<td>1L1</td>
<td>Sustainable Urban Transformation</td>
<td>…why cities are strategically important to sustainable development, climate change and greening the economy. The concept of sustainable urban transformation will be presented as a foundation for understanding urban change processes.</td>
<td>Kes McCormick</td>
</tr>
<tr>
<td>1L2</td>
<td>Sustainable Cities</td>
<td>…the concept of sustainable cities and how cities can become more sustainable, resilient and prosperous through key activities on energy, mobility and buildings.</td>
<td>James Evans</td>
</tr>
<tr>
<td>1L3</td>
<td>Urban Climate Governance</td>
<td>…urban climate governance and how cities can play an important role on climate change mitigation and adaptation. The challenges to bring about transformative change are also presented.</td>
<td>Jennifer Lenhart</td>
</tr>
<tr>
<td>1L4</td>
<td>The Efficient City</td>
<td>…how cities can set the agenda on energy and climate change. Different perspectives are presented on the key issues and broad context for developing sustainable cities.</td>
<td>Economist Intelligence Unit</td>
</tr>
<tr>
<td>1L5</td>
<td>WWF Housing</td>
<td>…how the housing sector can reduce climate and environmental impacts. The film is focused on examples from Sweden and developed by WWF.</td>
<td>WWF</td>
</tr>
<tr>
<td>1L6</td>
<td>ICLEI Participatory Urban Agriculture in Quito, Ecuador</td>
<td>…how participatory urban agriculture works in Quito, Ecuador.</td>
<td>ICLEI</td>
</tr>
<tr>
<td>1L7</td>
<td>WWF</td>
<td>…the Urban Green – part 1.</td>
<td>WWF</td>
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</tbody>
</table>
Module 2 – Infrastructure and Planning

The expected learning outcomes for this week are increased knowledge and a deeper understanding of the role of infrastructure and planning in creating sustainable cities.

Study activities in this module:

- Read the instructions for the assignment: Green Urban Initiative and have a look at the Example Submissions
- Watch the lecture videos in Module 2
- Read the course literature for this week: Reinventing the City: Three Prerequisites for Greening Urban Infrastructures
- Start working on the Course Assignment: Green Urban Initiative
- Engage in forum discussions
- Take Quiz 2

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<tr>
<th>#</th>
<th>Video Title</th>
<th>In this film you will learn about:</th>
<th>Presenters/Producers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2L1</td>
<td>Infrastructure and Planning</td>
<td>...the role of urban infrastructure and planning in creating sustainable cities and greening the economy. The challenges and opportunities related to transport and mobility in cities are presented.</td>
<td>Kes McCormick</td>
</tr>
<tr>
<td>2L2</td>
<td>Building Standards in the Built Environment</td>
<td>...building standards in shaping sustainable cites. Examples are presented together with a discussion on the business, technical and social implications of sustainable urban development.</td>
<td>Lara Hale</td>
</tr>
<tr>
<td>2L3</td>
<td>Lighting the Future</td>
<td>...how lighting is exciting and an important aspect of sustainable and liveable buildings and cities.</td>
<td>Thomas Lindhqvist</td>
</tr>
<tr>
<td>2L4</td>
<td>Cities and Climate</td>
<td>...a research project on urban transitions and climate change, which surveyed 100 cities around the world looking at experiments.</td>
<td>Economic and Social Research Council</td>
</tr>
<tr>
<td>2L5</td>
<td>WWF Transport</td>
<td>...how the transport sector can reduce climate and environmental impacts. The film is focused on examples from Sweden and developed by WWF.</td>
<td>WWF</td>
</tr>
<tr>
<td>2L6</td>
<td>ICLEI Building Urban Resilience in Boulder, USA</td>
<td>...how building urban resilience works in Boulder, USA.</td>
<td>ICLEI</td>
</tr>
<tr>
<td>2L7</td>
<td>WWF</td>
<td>...the Urban Green – part 2.</td>
<td>WWF</td>
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Module 3 – Urban Living Labs

The expected learning outcomes for this week are increased knowledge and a deeper understanding of urban living labs and the role of experiments in sustainable cities.

Study activities in this module:

- Watch the lecture videos in Module 3
- Read the course literature for this week: Urban Living Labs for Sustainability and Low Carbon Cities in Europe: Towards a Research Agenda
- Work on the Course Assignment: Green Urban Initiative. When you have submitted your assignment, you can move on to assess the work of three of your peers (a mandatory part of the assignment)
- Engage in forum discussions
- Take Quiz 3

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<thead>
<tr>
<th>#</th>
<th>Video Title</th>
<th>In this film you will learn about:</th>
<th>Presenters/Producers</th>
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</thead>
<tbody>
<tr>
<td>3L1</td>
<td>Climate Governance and Urban Experiments</td>
<td>...climate governance and the role of cities in responding to climate change. Examples are presented on international collaboration between local governments and urban experiments on decarbonisation.</td>
<td>Harriet Bulkeley</td>
</tr>
<tr>
<td>3L2</td>
<td>Urban Living Labs</td>
<td>...urban living labs through a discussion of engagement, exploration, experiments, evaluation and entrepreneurs.</td>
<td>Kes McCormick</td>
</tr>
<tr>
<td>3L3</td>
<td>Urban Innovation and Living Labs</td>
<td>...urban innovation and experimentation more broadly with a focus on learning through urban living labs and examples from around the world.</td>
<td>James Evans</td>
</tr>
<tr>
<td>3L4</td>
<td>Governance of Urban Sustainability Transitions</td>
<td>...a research project on the governance of urban sustainability transitions with partners and examples from Europe.</td>
<td>Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning.</td>
</tr>
<tr>
<td>3L5</td>
<td>WWF Positive</td>
<td>...how climate positive solutions can reduce climate and environmental impacts. The film is focused on examples from Sweden and developed by WWF.</td>
<td>WWF</td>
</tr>
<tr>
<td>3L6</td>
<td>ICLEI Energy Housekeeping in Seoul, Republic of Korea</td>
<td>...how energy housekeeping works in Seoul, Republic of Korea.</td>
<td>ICLEI</td>
</tr>
<tr>
<td>3L7</td>
<td>WWF</td>
<td>...the Urban Green – part 3.</td>
<td>WWF</td>
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Greening the Economy: Sustainable Cities

Module 4 – Future Urban Visions

The expected learning outcomes for this week are increased knowledge and a deeper understanding of visions for sustainable cities.

Study activities in this module:

- Watch the lecture videos in Module 4
- Read the course literature for this week: Virtual City Experimentation: A Critical Role for Design Visioning
- Work on and submit the Course Assignment: Green Urban Initiative. You should preferably submit your assignment at the latest this week (soft deadline), so that you and your peers have time to assess the assignments.
- Engage in forum discussions
- Take Quiz 4

<table>
<thead>
<tr>
<th>#</th>
<th>Video Title</th>
<th>In this film you will learn about:</th>
<th>Presenters/Producers</th>
</tr>
</thead>
<tbody>
<tr>
<td>4L1</td>
<td>Visioning Cities for the Future</td>
<td>…how visioning processes can shape policies and plans for sustainable cities. Visions can mobilize individuals and organisations to change the direction of urban development.</td>
<td>Lena Neij</td>
</tr>
<tr>
<td>4L2</td>
<td>Smart Sustainable Cities</td>
<td>…the emerging concept of smart sustainable cities and how the internet of things can underpin urban sustainability.</td>
<td>Lena Neij</td>
</tr>
<tr>
<td>4L3</td>
<td>Earth Hour City Challenge</td>
<td>…the Earth Hour City Challenge, which is an initiative organised by WWF to engage cities to report carbon footprint reduction commitments and actions.</td>
<td>Fouad Khan</td>
</tr>
<tr>
<td>4L4</td>
<td>Visions and Pathways 2040</td>
<td>…a research project on visions and pathways for cities in Australia. The film explores how dreaming and visioning about the future of cities is important to creating sustainable cities.</td>
<td>Victorian Eco Innovation Lab</td>
</tr>
<tr>
<td>4L5</td>
<td>WWF Food</td>
<td>…how changing eating habits and food procurement can reduce climate and environmental impacts. The film is focused on examples from Sweden and developed by WWF.</td>
<td>WWF</td>
</tr>
<tr>
<td>4L6</td>
<td>ICLEI Carbon Literacy in Manchester, UK</td>
<td>…how carbon literacy works in Manchester, UK.</td>
<td>ICLEI</td>
</tr>
<tr>
<td>4L7</td>
<td>WWF</td>
<td>…the Urban Green – part 4.</td>
<td>WWF</td>
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Module 5 – Sustainable Urban Lifestyles

The expected learning outcomes for this week are increased knowledge and a deeper understanding of the relationship between sustainable urban lifestyles and sustainable cities.

Study activities in this module:

- Watch the lecture videos in Module 5
- Read the course literature for this week: Urban Solutions for a Living Planet
- Work on and submit the Course Assignment: Green Urban Initiative (if you missed the soft deadline the previous week). You must submit your assignment at the latest this week, and also assess three assignments by your peers (hard deadline).
- Engage in forum discussions
- Take Quiz 5

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<tr>
<th>#</th>
<th>Video Title</th>
<th>In this film you will learn about:</th>
<th>Presenters/Producers</th>
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<tbody>
<tr>
<td>5L1</td>
<td>Sustainable Urban Lifestyles</td>
<td>...how local governments can influence urban lifestyles and the creation of sustainable cities.</td>
<td>Jennifer Lenhart</td>
</tr>
<tr>
<td>5L2</td>
<td>WWF and Sustainable Cities</td>
<td>...why WWF is engaging with cities and the importance of reducing carbon footprints through changing urban infrastructure and lifestyles.</td>
<td>Carina Borgström-Hansson</td>
</tr>
<tr>
<td>5L3</td>
<td>Cities and the Sharing Economy</td>
<td>...the sharing economy and how cities can influence sharing practices and organisations. Examples are presented on specific types of sharing.</td>
<td>Yuliya Voytenko</td>
</tr>
<tr>
<td>5L4</td>
<td>The Sustainability Challenge</td>
<td>...education and sustainability, which underpins the development of urban sustainability. Different perspectives are presented on education, innovation and sustainability.</td>
<td>Economist Intelligence Unit</td>
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<tr>
<td>5L5</td>
<td>WWF Consumption</td>
<td>...how changing consumption can reduce climate and environmental impacts. The film is focused on examples from Sweden and developed by WWF.</td>
<td>WWF</td>
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<tr>
<td>5L6</td>
<td>ICLEI Joint Climate Action in Joondalup, Australia</td>
<td>...how joint climate action works in Joondalup, Australia.</td>
<td>ICLEI</td>
</tr>
<tr>
<td>5L7</td>
<td>WWF</td>
<td>...the Urban Green – part 5.</td>
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Course Assignment: Green Urban Initiatives

In this assignment we want you to focus on a green urban initiative (implemented, ongoing, planned or proposed) in your city or a nearby city. The green urban initiative should be aiming to improve your city in response to climate change and/or environmental impacts. Make sure to use what you have learned in the course as regards to visions, innovations and experiments.

For inspiration have a look at the websites of ICLEI – Local Governments for Sustainability and C40 Cities Climate Leadership Group where you will be able to find examples of green urban initiatives in cities from around the world. You can also find some example submissions developed by the course teachers.

The assignment consists of three parts.

Part 1. Describe an environmental/climate problem that you are concerned about in your city or a nearby city of your choice (it can be a problem generated by your city or affecting your city). For example, air pollution from congested traffic in the city. Why do you find that this problem is relevant in your selected city? What are the impacts of the problem on your city and its citizens? To begin your assignment you can look at the website of the city government in your selected city.

Part 2. Present and analyse a green urban initiative by the city government (or collaboration of stakeholders) to respond to the environmental/climate problem. For example, investments to develop integrated public transportation. Can you describe the green urban initiative and its effects on your city? How is the green urban initiative working to improve your city? If your city lacks a green urban initiative responding to the environmental/climate problem you have identified, then present and analyse the limited response.

Part 3. Suggest improvements to inspire further action on the environmental/climate problem. For example, develop a mobile phone app for the city that gathers real-time data on the quickest and easiest routes to increase the use of public transportation. Can you suggest improvements to the green urban initiative you have identified in your city? What new activities could be needed to promote transformative change in your city? For inspiration, check out the films in the Transformation Actions Program coordinated by ICLEI – Local Governments for Sustainability.

Present your assignment using the following format (maximum credits for each part is indicated within brackets):

- Summary – Write a 1-2 sentence summary that reflects your assignment on a green urban initiative. Try to grab attention and present a key message. (4)
- Parts – Describe part 1, 2 and 3 as presented above. Each part should be at least 50 words and not exceed 150 words. (10 + 10 + 10)
- Share & Illustrate – Add a pin in the city of your choice to the course map and provide an image (or other illustration) capturing the issue you have focused on in a visual way. Add your summary as well. (6)
- Resources – i) explain how you have used the films and/or readings from the course to support your assignment and ii) list any other references (not from the course, for example hyperlinks) you have used to present the selected city, its problems, initiatives and suggested improvements. (6 + 4)

Optional/bonus (not graded but appreciated):

- Make a tweet or post on Facebook about your assignment on a green urban initiative in your city (remember @lunduniversity @WWF @coursera @IIIEElund)
- Share the assignment through the WWF We Love Cities Campaign to spread your findings.
It is important that you select issues and material that you find relevant for your assignment, that you justify why you have selected them and find them relevant, and that all parts of the assignment is presented in a clear, logical way. Submit your assignment before the soft deadline at the end of week 4 to allow enough time for your peers to review your work.

In this assignment you are not only submitting your own work, you also take on the role as a reviewer, grading the work of three other course participants. Please allow yourself sufficient time for these reviews, so that you can give your peers a good, fair and justified assessment of their work.

When evaluating assignments by others, you will be asked to look at both relevance and clarity of the different submission parts. Try to be both objective and open minded in your evaluation and grading. When asked to give comments and feedback (appreciated but not graded) be nice, polite and provide brief, constructive critique.

Course Map
Example 1

**Title:** Urban Forest Strategy in Melbourne

**Summary:** A healthy urban forest will play a critical role in maintaining the liveability of Melbourne in the face of a changing climate.

**Part 1:** The City of Melbourne is facing the significant challenges of climate change, population growth and urban heating, placing pressure on the built fabric, services and people of the city. The increasing heat in the city associated with climate change is a major concern for the city government as it poses health risks for people in the city. At the same time, parks and gardens as they have been designed in the past are insufficient to help "cool" the city. And in fact, many trees and plants in the city are under stress from heat and limited water. So the whole strategy around a green and liveable city needs to be transformed.

**Part 2:** The City of Melbourne has developed an Urban Forest Strategy that seeks to protect against future vulnerability by providing a robust strategic framework for the evolution and longevity of the urban forest in Melbourne. The strategy aims to adapt the city to climate change, mitigate the urban heat island effect by bringing the inner-city temperatures down, create healthier ecosystems, become a water-sensitive city, and engage and involve the community.

**Part 3:** The urban forest strategy in Melbourne is impressive. An improvement could be to connect the growing of more trees and plants in the city to also increase the biodiversity. Increased biodiversity is a way of improving resilience of the urban forest as the climate is changing. A further step forwards could be to benchmark the strategy against the best in the world, and aim to be the world leader on developing an urban forest in the City of Melbourne. Business in the city could also be engaged to invest in planting trees.

**Share & Illustrate:** A green pin with a picture and short description has been added in Melbourne, Australia on the Course map.

**Resources:** The main resources used from the course, included the films in week 1 on sustainable urban transformation and week 4 on visions for sustainable cities. A key reading used was the chapter on Sustainable Urban Transformation and the Green Urban Economy. Another additional reading which was used was the report on the Green Urban Economy.

- Urban Forest Film - https://www.youtube.com/watch?v=ByIUmxFCE8A
Example 2

Title: Biogas Buses in Malmö

Summary: From fork to wheels - fuelling your rides with waste from your kitchen

Part 1: Traffic volumes are high in Malmö and a number of larger transit roads cross the inner city. Traffic is responsible for most of the air pollution in Malmö. Even though the air quality has improved over the years and is now rated as "good", and sulfur dioxide and nitrogen dioxide levels are relatively low, air pollution still poses a significant health risk for Malmö residents. In fact, the number of deaths associated with air pollution is said to be higher than those from car accidents. Transport also leads to climate change and noise.

Part 2: The municipality-owned waste company has together with the City of Malmö invested in buses fuelled by biogas in the last decades. By now, all 200 buses in Malmö run on a mixture of biogas and compressed natural gas. As compared to conventional buses that often run on diesel, this enables reductions of GHG emissions, NOx emissions and particles. Moreover, Malmö is now investing in new buses using hybrid technology – a motor running on biogas generates electricity powering a number of electric motors that drive the bus. Batteries are used as intermediate energy storage. By using this technology, the buses generate even lower emissions.

Part 3: As the buses use batteries, which are charged with biogas-fueled electricity, the batteries could also be charged with electricity from the grid. A further development of the technology would be to use so-called plug-in hybrid buses, where part of the energy could come from charging the batteries with electricity during the time they go back to the bus depot, often at night. Depending on the potentially limited supply of biogas, the City of Malmö could also extend its biogas-driven charging stations for private electrical cars with special “fueling” stations also in suburbs to allow for a stronger incentive and use of biogas-fueled electrical cars. It would also give individuals the choice to have a greener version of electrical cars.

Share & Illustrate: A red pin with a picture and short description has been placed in Malmö, Sweden on the Course map.

Resources: The main resources used from the course, included the WWF film on transport in week 2 and the film on sustainable cities in week 1. The introductory reading on Cities and climate change: The great decarbonisation challenge was helpful. As was the additional readings.

- Air pollution in Malmö – http://aqicn.org/city/sweden/malmo-radhuset/
- Recycling in Malmö – http://malmo.se/English/Sustainable-City-Development/Recycling.html
Course Grading

How do I pass the course?

The course activities that are graded in this course are the 5 quizzes and a peer assessed assignment. Only these 2 activities are graded, meaning that you do not get credits for (or are graded on) viewing the course videos, looking over the readings, or participating in forum discussions. However, by doing these activities we are convinced that you will learn a lot and will be more prepared to do the graded activities!

The quizzes

Your final grade is determined by your score on 5 equally-weighted quizzes, with each quiz worth 10% of the final grade. When you take a quiz, you get a number of credits (your score) depending on how well you do in the test. Each credit you earn in the course represent 1%.

You can get maximum 50 credits by completing the 5 weekly quizzes successfully. Consequently, the quizzes constitute in total 50% of the grade.

In each quiz you must get at least 80% of the total score in order to pass. You have 2 hours to complete the quiz, and if you do fail your attempt, you can re-take the quiz 2 more times within this time period. If you do not succeed within these 2 hours, after 8 hours you will get a new 2 hours timeslot to make new attempts.

Once you have completed a successful attempt, the score you get in this attempt is the result being graded. If you score 80% on the quiz, you have passed the threshold and you add 8 credits (out of maximum 10) to your final grade.

The assignment

The assignment consists of a) your submission and b) your peer review of 3 assignments by your peers. You must complete b) in order to obtain credits for a). You can get a maximum of 50 credits for completing the peer-assessed assignment.

By completing the peer assessment part of the assignments, you are not only helping your fellow students, but you also help yourself completing the course. Completing more than 3 reviews is highly appreciated, but you will not earn any more credits.

What is the pass rate for the course?

You must do and pass all the graded activities in order to pass the course. There is an 80% threshold for passing each of the quizzes, and a 60% threshold for passing the peer assessed assignment, so the overall pass-rate of the course becomes 70%. Once you have completed and passed both of the graded course activities, you have passed the course.
How can I get a course certificate?

In this course, you can register for a Course Certificate issued jointly by Coursera and Lund University. In order to get a certificate you need to i) verify your identity when doing the quizzes and the assignment, ii) pay a fee of about 50 US dollars to Coursera (or apply for financial aid), and iii) complete and successfully pass all graded activities in the course. Once you have completed the course, you will be informed by Coursera how you can access your course certificate. It is Coursera who administrates the course certificates and it is not within the authority of the course administrators to influence this process.
Course Readings

The course involves 7 mandatory readings, which underpin the short films. The knowledge from the mandatory readings is tested in the course quizzes.

An additional 5 readings are recommended to learn about important organisations working on sustainable cities, including WWF, ICLEI – Local Governments for Sustainability, UN-Habitat, C40 Climate Leadership Group, Arup, Sustainia, and the Rockefeller Foundation.

Remember to also check out Chapter 4 on Sustainable Cities and Chapter 1 on Greening the Economy in the compendium entitled Greening the Economy: Lessons from Scandinavia. Download

Mandatory Readings (7)

Introduction


Week 1: Sustainable Urban Transformation


Week 2: Infrastructure and Planning

- WWF (2012) Reinventing the City: Three Prerequisites for Greening Urban Infrastructures. Download

Week 3: Urban Living Labs


Week 4: Future Urban Visions


Week 5: Sustainable Urban Lifestyles

Additional Readings (5)

- C40 & Sustainia (2015) Cities 100. Download
Course Teachers and Staff

In the films in this MOOC you will meet 10 teachers from a mix of organisations. The combination of teachers is designed to enhance your learning experience in the course by providing a diversity of perspectives. You will meet the teachers across the 5 weeks in the course.

In addition to the teachers in this MOOC, you will interact with 2 course developers and pedagogues who are working to help make your experience in the course as fruitful and interesting as possible. Furthermore, there are multiple community teaching assistants that support the discussion forums and activities in the MOOC.
About the IIIEE and Lund University

International Institute for Industrial Environmental Economics (IIIEE)

The International Institute for Industrial Environmental Economics (IIIEE) at Lund University in Sweden is an international centre of excellence on strategies for sustainable solutions. The IIIEE is ideally suited to understand and explain the interdisciplinary issues in greening the economy utilizing the diverse disciplinary backgrounds of its international staff. The IIIEE has been researching and teaching on sustainability and greening the economy since the 1990s and it has extensive international networks connecting with a variety of organizations.

In 1995, the IIIEE launched its unique Masters Programme in Environmental Policy and Management (EMP) to educate professionals committed to and capable of solving global sustainability challenges. In 2005, the IIIEE joined a consortium to launch the Erasmus Mundus Masters Course in Environmental Sciences, Policy and Management (MESPOM). MESPOM is delivered in cooperation with 3 European and 2 North American universities. More than 1000 graduates of these programmes from over 100 nations are contributing to sustainable development in industry, government, UN organisations, NGOs, SMEs and academia.

The IIIEE has extensive experience with online education both on undergraduate and graduate levels and it has received the E-xcellence label by the EADTU. The IIIEE education is interdisciplinary and it has a close engagement with real-life practice in the private and public sectors. The international character of our Masters education and our outstanding Alumni Network has supported intense learning across national boundaries. The IIIEE has designed and developed 2 MOOCs on greening the economy.

Lund University

Lund University is located in the south of Sweden, in the city of Lund. It was founded in 1666 and it has almost 50,000 students and 7,500 staff. It is ranked in the top 100 universities in the world. Lund University provides education and research in engineering, science, law, social sciences, economics, medicine, humanities, theology, fine art, music and drama. It has initiated MOOCs on greening the economy, sustainable cities, business law and global health.
Greening the Economy: Sustainable Cities is a Massive Open Online Course designed and developed by the International Institute for Industrial Environmental Economics (IIIEE) at Lund University in Sweden in collaboration with WWF and ICLEI – Local Governments for Sustainability.

http://www.coursera.org/learn/gte-sustainable-cities/