



# Earth, Energy and Sustainability (BSc)



Currently at 7 billion, the Earth's population is on target to reach 8 billion by 2027. What are some of the key environmental challenges related to this population growth which we are facing as society at the moment, and in the future? What can you do to make a real change in this world? These are key questions addressed in the major Earth, Energy & Sustainability at LUC. This major operates at the forefront of environmental sciences, with a balance between understanding key concepts within a classroom setting, and applying the gained knowledge in real-life situations, both in the field and in the laboratory.

### This major might be for you if you are interested in the following questions:

- ▶ What are GMOs and what are the opportunities and risks associated with using them?
- ▶ What are the risks of fracking? And which alternative energy resources do we have available which allow for economic growth while minimizing environmental pollution?
- ▶ How is biodiversity loss related to biofuel production?

"I got inspired during sustainability lectures in the first year, that is why I chose this major. I followed the Energy and Natural Resources and Earth System Science tracks and really enjoyed them! My favorite class was Water Resources and River Management as well as the research clinic I was able to take part on researching Microplastics in the Caribbean."

*Lone Mokkenstrom | The Netherlands*

	Core tracks Earth, Energy and Sustainability		
	Ecosystem Health	Earth System Science	Energy & Natural Resources
	<b>Core courses</b>		
<b>100-level</b>	• Environmental Science	• Earth System Science	• Energy and Resource Management
<b>200-level</b> <i>Example Methodology course: Geographic Information Systems</i>	• Environmental Pollution • Evolutionary Biology	• Climate Change • Earth Dynamics, Cycles, and Timescales	• Energy Science
<b>300-level</b> <i>Example Methodology course: Advanced Quantitative Research Methods</i>	• Ecosystem services • Conservation Biology	• Water Resource and River Management • Soils, Sediment and Society	• Alternative Energy Strategies • Energy and Society
<b>400-level</b>	<b>Capstone thesis</b>		

e-prospectus



### What does the future hold?

This major prepares you to start your career in a highly dynamic and fast moving field of sustainability research. At LUC we emphasize that sustainability ultimately exists within a human context. Therefore there are many cross-links within the major to social sciences, with courses such as public policy and environmental law.

#### Graduate Studies

- ▶ MSc Sustainable Resources at University College London, UK
- ▶ MSc Biodiversity, Conservation and Management at Oxford University, UK
- ▶ MSc Creative Sustainability at Aalto University, Denmark

#### Careers

- ▶ Research
- ▶ Advisor Government or NGO
- ▶ Environmental Consultancy