

# **SUSTAINABLE DESIGN :**

## **ECOLOGY, CULTURE AND HUMAN BUILT WORLDS 7.5 ECTS**

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*How can an interdisciplinary approach to design unlock new creativity and beauty? How can a reflective and critical approach challenge how, what and why you design? Who are you designing for? How can different forms in naturecultures serve as models and inspiration for new designs? And what are the limits of ingenuity and creative design?*

This course looks at design from an interdisciplinary, critical and practical perspective, with focus on different theories and models that turn present conventions of design on their head. With inspiration from ecologies and the more-than-human, and in-depth discussion of how cultural, social and historic conditions define human perceptions of the environment, the course tries to reach practical conclusions on how creative design can contribute to a sustainable and better world. The course combines interactive workshops with inspiring guest lectures.

Welcome to Sustainable Design : Ecology, Culture and Human Built Worlds 2022 at CEMUS, Uppsala University.

We look forward to meeting you soon.

Tobias Bharucha (he/they) & Oscar Martín (he/him)

Course Coordinators

## COURSE INTRODUCTION AND REGISTRATION

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The course introduction will take place during the first session on **Tuesday January 18th at 17:15**. We will meet in **Norrlands I, Geocentrum**. If you're not familiar with the Geocentrum campus, please check the map [here](#).

The majority of classes will then be held in Norrlands I & II for the duration of the semester.

For course registration questions, please head to <https://www2.uu.se/student>.

*Contact [jenny.thor@geo.uu.se](mailto:jenny.thor@geo.uu.se) if you still have any questions.*

## COVID-19

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We will be following the guidelines from Uppsala University and the Department of Earth Sciences outlining how to conduct education this semester. Please do not come to class at all if you are sick and notify us if you can.

## LEARNING OUTCOMES

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On completion of the Sustainable Design course, the student should be able to;

- account for different theoretical and applied design principles and models for sustainable design;
- account for and critically relate to sustainable design from an ethical, cultural and historical perspective;
- critically review different design solutions ecological, social and economic consequences, risks, possible uses and functions in the work for a sustainable development;
- independently apply a specific design theory on a specific challenge within the sustainability field.

## COURSE STRUCTURE

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- A preliminary schedule is available on Studentportalen and the course website at: <http://www.cemus.uu.se/sdesign>

- For the duration of the course you will be undertaking a Design Project, through which you will apply the theory and processes you learn in the weekly seminars. This will be split into 3 core modules: Framing, Ideation and Re-Framing.
- Weekly, the course consists of engaging lectures and seminars. Lecturers will be delivered by a number of different guests from academia and industry, discussing sustainable design from a variety of different perspectives. During seminars we will take a closer look at topics from lectures and the literature, work through the design process and apply design methods to identify and solve today's sustainability challenges.
- The classes will take place on **Tuesday evenings 17:15-19**. The course will start week 4 and run through to week 23.

## LITERATURE

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Literature for the course includes the following:

### Main Course Books:

**Design for Sustainability: A Multilevel framework from Products to Socio-technical Systems - By Fabrizio Ceschin and Ídíl Gaziulusoy**  
[Open Access Online](#). Published by Routledge, 2019. ISBN9780429456510

**Beyond Efficiency: Speculative Design for living in the Eocene - By Josefin Wangel, Eléonore Fauré (Eds.)**  
Published by AADR, 2021. ISBN 9783887786113

**Design Struggles: Intersecting Histories, Pedagogies, And Perspectives - By Claudia Mareis and Nina Paim (Eds.)**  
Published by Valiz, 2021. ISBN 9789492095886

### Online Course Compendium

An online compendium with 2-4 texts, videos, audio files and/or other learning material per week available through Studentportalen. This compendium will reflect different authors and perspectives. Most guest lecturers have also included articles in this collection.

## EXAMINATION

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The student is examined through written preparation for (2 credits) and active participation in seminars and workshops (1.5 credits), and through written documentation (3.5 credits) and oral presentation (0.5 credit) of a project. A more detailed breakdown of course examination can be found in the Sustainable Design Examination document.

## COURSE TEAM

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### Course Coordinators

Tobias Bharucha. I grew up in Windsor, UK and studied Natural Sciences, majoring in Plant Sciences, at the University of Cambridge. Having worked for a year in the solar industry, I decided to continue with education- why not try Sweden? I'm currently studying the Global Environmental History masters programme at Uppsala and working at CEMUS.

Oscar Martín, studied mechanical engineering in Barcelona. After finishing his bachelor's degree, he worked for a year in a steelworks company. Always having in mind reconciling engineering and sustainability, he then moved to Sweden to study a Masters in Sustainable Development in Uppsala University. Currently finishing the programme and working at CEMUS.

## CONTACT INFORMATION

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Feel free to contact us regarding any aspect of the course, either in person or by the following:

Tobias Bharucha      [tobias.bharucha@cemus.uu.se](mailto:tobias.bharucha@cemus.uu.se)

Oscar Martin        [oscar.martin\\_carles@cemus.uu.se](mailto:oscar.martin_carles@cemus.uu.se)

Website              <http://www.cemus.uu.se/sdesign/>

Visit us at CEMUS, Geocentrum, Villavägen 16, Uppsala  
Telephone: 018-471 27 95

## CEMUS

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CEMUS' aim is to advance and inspire education and knowledge within the field of environment and development studies, as well as other boundary-transcending issues connected to sustainable development. CEMUS began as an initiative by students in the early 90's and CEMUS courses are, in large part, still run by students today. The courses at CEMUS are built in collaboration between students, course coordinators, teachers, researchers, university administrators and societal actors.

CEMUS' primary point of departure and approach is based on what has become known as Education for Sustainable Development (ESD). Through democratic, realistic and extensive work modes, this teaching method strives to motivate students to heighten their critical thinking skills, as well as encourage responsibility and engagement in the issues of sustainable development.

The [CEMUS Semester Start-Up Lecture](#) for Spring 2022 is highly recommended (but not a part of the course). It will be delivered by Alan AtKisson, Assistant Director-General of Sida, and is titled "Sustainable Development: How We Got Here, and Where We're Going".

Time : January 17th 18.15-20.00

Location: Lecture hall X (ten) / Sal X (tio), University Main Building / Universitetshuset, Biskopsgatan 3, 753 10 Uppsala, see map [here](#).

Also via Zoom: <https://uu-se.zoom.us/j/62319834776>

Please visit the CEMUS website for more information on current and upcoming events ([www.cemus.uu.se](http://www.cemus.uu.se)).

## PRACTICAL INFORMATION

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### Information Flow

The main communication tool will be Studium: [studium.uu.se](http://studium.uu.se). You will need to visit Studium regularly to check for updates on the home page, view course content and to upload your assignments. If you have missed a class you should visit the webpage to make sure you have not missed any important information. You will need an account for Studium, so please arrange an account as soon as possible! You can find out how you get your account and other information on [uu.se/en/students](http://uu.se/en/students).

Other information can be found on the [Sustainable Design course website](#).

## **Class Location**

The majority of classes will be held in Norrlands I & II. However, there may be some exceptions so please check the schedule to be aware of this. We will also give you plenty of advanced notice in class.

## **Access to CEMUS and other Facilities**

For access to university buildings you will require a student card. If you are a new student, information on how to activate your user account can be found at <https://konto.weblogin.uu.se/index.html>. The instruction message is usually sent out 24 hours after the activation, but sometimes it can be delayed a further day. Instructions on how to obtain your campus card will be sent to the email address registered to you in the student database. Once you have ordered the card according to the instructions, you will be notified via email when your card is available for pickup at your campus reception desk. When you collect the campus card you will need to show an approved identification (driver's licence, passport etc).

## **Finding your way:**

The app [Mazemap](#) is an excellent resource for finding rooms in most buildings.

## **Map with Important Locations:**

