**Course schedule for Prospects and challenges for sustainable food systems (LV0103)**

August 31-October 30, 2020

**The latest version of the schedule is available on Canvas**. Non-scheduled time=time for reading course literature

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| Introduction to food system sustainability | 2 weeks  |
| Food production chains | 3 weeks |
| Sustainability assessment | 3 weeks |
| Innovative products and concepts  | 1 week |

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| **Date** | **Time** | **Theme/activity** | **Location** | **Literature** |
|  |  | **THEME 1: Introduction to food systems** |  |  |
| Aug 31Monday  | 10-1214-15 | **Introduction to the master program****Introduction to the course** (PT, BB) | Sal Särimner (VHC)Zoom |   |
| Sep 1 Tuesday  | 9-1113-15 | **Lecture 1**: *Food systems, sustainability and land-use - an introduction* (BB) + introduction to Task 1 (BB, PT)Social activitiesfor all students attending the course (bring your own “fika”)  | ZoomLoftets bankett-sal/outdoor | Food systems & natural resources. Chapter 1-4. UNEP.FCRN food source. Chapter 1 Alexander et al 2015 |
| Sep 2 Wednesday | 9-12 | **Lecture 2**: *Resource use and environmental impacts of food systems* (JK) | Zoom | UNEP. Chapter 5, 7, Annex 1.Foley et al 2011. IPBES 2019. |
| Sep 3 Thursday | 13-15 | **Lecture 3**: *How our diets affect nutrition, health and environment* (NS) | Zoom | FCRN Chapter 7 and 9  |
| Sep 4 Friday | 9-1013-16.30 | Drop-in session for Questions for task 1**PRESENTATIONS:** Individual task 1*(Local food systems around the world)* (BB, PT) | ZoomLennart Kennes sal + A241 |  |
| Sep 7Monday | 10-1213-1414-17 | **Lecture 4**: *Social sustainability and food system* (CW) Instruction **Task 2** (*Future food systems, BB*)Start work on Task 2 | ZoomZoom | <https://www.slu.se/future-food-seminarier> (Milestad+Tellström)Task 2: Reports from FAO, IDDRI and WRI |
| Sept 8Tuesday | 9-17 | Preparation: Task 2 | Self organised |  |
| Sept 9Wednesday | 9-11 | **Lecture 5:** *Climate change, food systems & diets* (BB) | Zoom | Myers et al 2017FCRN chapter 3-4 |
| Sept 10 Thursday | 9-1213-17 | **Lecture 6:** *Aquatic Resources in global food systems* (JHS)Preparation: Task 2 | Zoom | Troell et al 2014 |
| Sept 11Friday | 10.30-15.00 | **SEMINAR task 2**: *Narratives and scenarios for future food systems* (BB, PT)Discussion based on reports. Send in your reflection notes afterwards. | Framtiden+A241 |  |
|  |  | **THEME 2. Food production chains** |  |  |
| Sept 14Monday | 10-1111-1213-15 | Introduction to group work: production chains (PT) **Lecture 7**. *Sustainable crop production* (PT)**Lecture 8.** *Crops, yields and cropping systems* (GB) | ZoomZoomZoom | Vitousek et al 2009, Naylor et al 2005, Muller et al 2017, Reganold & Wachter 2016Garnett et al. 2013. |
| Sept 15 Tuesday | 9-1113-16 | **Field tour:** *Crops and cropping systems in the surroundings of Ultuna* (GB) Group work | Campus |  |
| Sept 16Wednesday | 9-1213-17 | **Lecture 9:** *Sustainable livestock production* (ML)Group work | Zoom | FCRN food source. Chapter 8; Makkar & Ankers 2014 |
| Sept 17Thursday | 10-1213-17 | **Lecture 10.** *Between farm and fork: processing and manufacture of food* (*BB)*Group work | Zoom | Dani 2015  |
| Sept 18Friday | 9-12 | **Lecture 11:** *Transport system: from local to global distribution in different settings* (DL) | Zoom | Christopher 1998. Chapter 1Dani 2015 |
| Sept 21 Monday | 8-1213-16 | Group work**USE and HANDLE INFORMATION** (MP, SL) | Zoom |  |
| Sept 22 Tuesday | 10-12 | **Lecture 12.** Food safety in food systems (IV) | Zoom | Martiin 2014. Chapter 21  |
| Sept 23Wednesday | 8-17 | Group work |  |  |
| Sept 24Thursday | 10-1213-15 | **Lecture 13**: *Food waste: current situation and improvement options along the food chain* (ME) **Lecture 14**:  *Recycling nutrients from excreta: past, present and future options for circular food systems* (AN)  | ZoomZoom | Mourad 2016 McConville et al. 2015 |
| Sept 25Friday | 2 h8-17 | **STUDY VISIT** on nutrient recycling systems (AN, PS)Group work | Campus |  |
| Sept 28Monday | 8-17 | Group work |  |  |
| Sept 29Tuesday | 8-17 | Group work and preparation for presentation |  |  |
| Sept 30Wednesday | 8-1213-16 | Group work**: 17.00 deadline for written report** Educational information for master students |  |  |
| Oct 1Thursday | 8-17 | Group work: prepare for presentation and opposition |  |  |
| Oct 2Friday | 10.30-1515-17 | **PRESENTATIONS: Gro**up work (PT, DL, BB, JK)Time for complementing the reports | A241, C212-213, C216 |  |
|  |  | **THEME 3. Sustainability assessment** |  |  |
| Oct 5Monday | 9-9.309.30-1213-15 | Introduction to theme 3**Lecture 15:** *Intro to systems thinking & systems analysis. How can environmental, economic and social criteria be evaluated and weighted for food chains?* **Exercises** – setting system boundaries and criteria in a participatory approach (JMC) | ZoomZoomSal W | Kim 1999Supplement to: Raworth K. 2017Müller. 2007.  |
| Oct 6 Tuesday | 9-1213-14 | **Lecture 16:** *LCA Method* (PS, PT) Introduction to **Group work LCA** (PS) | ZoomZoom | Food source chapter 2, Gulisano et al 2018, Notarnicola et al 2017.  |
| Oct 7Wednesday | 8-12.30 13-17 | **Group work LCA.** With access to supervisors (PS,MS)Group work | Datorsalar 1,2 MVM |  |
| Oct 8Thursday | 8-12.30 13-17 | **Group work LCA** with excess to supervisor between 8-12 ( PS, MS)  | Datorsalar 1,2 MVM (8-12.30) |  |
| Oct 9Friday | 10.30-12.3015.00-16 | **SEMINAR:** Group work LCA(PS, MS, PT)Drop-in session for question on task 2 | Sal LZoom |  |
| Oct 12Monday | 9-1111-12 | **Lecture 17:** Tools for promoting sustainable production and consumption of food: some examples (PT)Introduction to individual task 3 | ZoomZoom | Röös 2017*For Task 3, see separate literature list*. |
| Oct 13Tuesday | 8-17 | Individual task 3 |  |  |
| Oct 14Wednesday | 8-17 | Individual task 3 |  |  |
| Oct 15Thursday | 10-17 | Individual task 3 |  |  |
| Oct 16Friday | 8-17 | **Deadline for written individual report 18.00** |  |  |
| Oct 19Monday | 8-17 |  |  |  |
| Oct 20 Tuesday | 8-17 |  |  |  |
| Oct 21Wednesday | 8-17 |  |  |  |
| Oct 22Thursday | 13-17 | **Exam** |  |  |
|  |  | **THEME 4. Innovative food products and systems** |  |  |
| Oct 23Friday | 9-1111-17 | **INTRODUCTION to theme 4 and Task 4** (JMC)Preparation**:** Task 4 | Zoom |  |
| Oct 26Monday |  | Preparation**:** Task 4 |  |  |
| Oct 27Tuesday | 8-17 | Preparation**:** Task 4 |  |  |
| Oct 28Wednesday | 8-17 | Preparation: Task 4**. Deadline 17.00**  |  |  |
| Oct 29Thursday | 8-15 | **PRESENTATIONS**: Task 4 (JMC, PT)Course evaluation and coming program courses  | Sal K |  |

**Activities marked with red UPPERCASE LETTERS are mandatory**

**Lecturers**

Bojana Bajzelj (BB)

Cecilia Waldenström (CW)

David Ljungberg (DL)

Göran Bergkvist (GB)

Ivar Vågsholm (IV)

Jennifer McConville (JMC)

Johan Karlsson (JK)

Jonas Hentati Sundberg (JHS)

Malin Persson (MS)

Mattias Eriksson (ME)

Maximilian Schulte (MS)

Mikaela Lindberg (ML)

Niina Sundin (NS)

Pernilla Tidåker (PT)

Petra Siegel (PS)

Sabine Lundberg (SL)