**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 | 10-12  14-15 | **Introduction to the master program**  **Introduction to the course** (PT, BB) | Sal Särimner (VHC)  Zoom |  |
| Sep 1 Tuesday | 9-11  13-15 | **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”) | Zoom  Loftets 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 | 9-10  13-16.30 | Drop-in session for Questions for task 1  **PRESENTATIONS:** Individual task 1*(Local food systems around the world)* (BB, PT) | Zoom  Lennart Kennes sal + A241 |  |
| Sep 7  Monday | 10-12  13-14  14-17 | **Lecture 4**: *Social sustainability and food system* (CW)  Instruction **Task 2** (*Future food systems, BB*)  Start work on Task 2 | Zoom  Zoom | <https://www.slu.se/future-food-seminarier> (Milestad+Tellström)  Task 2: Reports from FAO, IDDRI and WRI |
| Sept 8  Tuesday | 9-17 | Preparation: Task 2 | Self organised |  |
| Sept 9  Wednesday | 9-11 | **Lecture 5:** *Climate change, food systems & diets* (BB) | Zoom | Myers et al 2017  FCRN chapter 3-4 |
| Sept 10  Thursday | 9-12  13-17 | **Lecture 6:** *Aquatic Resources in global food systems* (JHS)  Preparation: Task 2 | Zoom | Troell et al 2014 |
| Sept 11  Friday | 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 14  Monday | 10-11  11-12  13-15 | Introduction to group work: production chains (PT)  **Lecture 7**. *Sustainable crop production* (PT)  **Lecture 8.** *Crops, yields and cropping systems* (GB) | Zoom  Zoom  Zoom | Vitousek et al 2009, Naylor et al 2005, Muller et al 2017, Reganold & Wachter 2016  Garnett et al. 2013. |
| Sept 15  Tuesday | 9-11  13-16 | **Field tour:** *Crops and cropping systems in the surroundings of Ultuna* (GB)  Group work | Campus |  |
| Sept 16  Wednesday | 9-12  13-17 | **Lecture 9:** *Sustainable livestock production* (ML)  Group work | Zoom | FCRN food source. Chapter 8; Makkar & Ankers 2014 |
| Sept 17  Thursday | 10-12  13-17 | **Lecture 10.** *Between farm and fork: processing and manufacture of food* (*BB)*  Group work | Zoom | Dani 2015 |
| Sept 18  Friday | 9-12 | **Lecture 11:** *Transport system: from local to global distribution in different settings* (DL) | Zoom | Christopher 1998. Chapter 1  Dani 2015 |
| Sept 21 Monday | 8-12  13-16 | 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 23  Wednesday | 8-17 | Group work |  |  |
| Sept 24  Thursday | 10-12  13-15 | **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) | Zoom  Zoom | Mourad 2016  McConville et al. 2015 |
| Sept 25  Friday | 2 h  8-17 | **STUDY VISIT** on nutrient recycling systems (AN, PS)  Group work | Campus |  |
| Sept 28  Monday | 8-17 | Group work |  |  |
| Sept 29  Tuesday | 8-17 | Group work and preparation for presentation |  |  |
| Sept 30  Wednesday | 8-12  13-16 | Group work**: 17.00 deadline for written report** Educational information for master students |  |  |
| Oct 1  Thursday | 8-17 | Group work: prepare for presentation and opposition |  |  |
| Oct 2  Friday | 10.30-15  15-17 | **PRESENTATIONS: Gro**up work (PT, DL, BB, JK)  Time for complementing the reports | A241, C212-213, C216 |  |
|  |  | **THEME 3. Sustainability assessment** |  |  |
| Oct 5  Monday | 9-9.30  9.30-12  13-15 | 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) | Zoom  Zoom  Sal W | Kim 1999  Supplement to: Raworth K. 2017  Müller. 2007. |
| Oct 6 Tuesday | 9-12  13-14 | **Lecture 16:** *LCA Method* (PS, PT)  Introduction to **Group work LCA** (PS) | Zoom  Zoom | Food source chapter 2, Gulisano et al 2018, Notarnicola et al 2017. |
| Oct 7  Wednesday | 8-12.30 13-17 | **Group work LCA.** With access to supervisors (PS,MS)  Group work | Datorsalar 1,2 MVM |  |
| Oct 8  Thursday | 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 9  Friday | 10.30-12.30  15.00-16 | **SEMINAR:** Group work LCA(PS, MS, PT)  Drop-in session for question on task 2 | Sal L  Zoom |  |
| Oct 12  Monday | 9-11  11-12 | **Lecture 17:** Tools for promoting sustainable production and consumption of food: some examples (PT)  Introduction to individual task 3 | Zoom  Zoom | Röös 2017  *For Task 3, see separate literature list*. |
| Oct 13  Tuesday | 8-17 | Individual task 3 |  |  |
| Oct 14  Wednesday | 8-17 | Individual task 3 |  |  |
| Oct 15  Thursday | 10-17 | Individual task 3 |  |  |
| Oct 16  Friday | 8-17 | **Deadline for written individual report 18.00** |  |  |
| Oct 19  Monday | 8-17 |  |  |  |
| Oct 20 Tuesday | 8-17 |  |  |  |
| Oct 21  Wednesday | 8-17 |  |  |  |
| Oct 22  Thursday | 13-17 | **Exam** |  |  |
|  |  | **THEME 4. Innovative food products and systems** |  |  |
| Oct 23  Friday | 9-11  11-17 | **INTRODUCTION to theme 4 and Task 4** (JMC)  Preparation**:** Task 4 | Zoom |  |
| Oct 26  Monday |  | Preparation**:** Task 4 |  |  |
| Oct 27  Tuesday | 8-17 | Preparation**:** Task 4 |  |  |
| Oct 28  Wednesday | 8-17 | Preparation: Task 4**. Deadline 17.00** |  |  |
| Oct 29  Thursday | 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)