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

August 30-November 1, 2021

**Non-scheduled time=time for reading course literature**

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| Theme 1: Introduction to food system sustainability | 2 weeks |
| Theme 2: Food production chains | 3 weeks |
| Theme 3: Sustainability assessment | 3 weeks |
| Theme 4: Innovative food products and concepts | 1 week |

**Activities marked with red UPPERCASE LETTERS are mandatory. The latest updated version of the schedule is available on canvas!**

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| **Date** | **Time** | **Theme/activity** | **Location** | **Literature** |
|  |  | **THEME 1: Introduction to food systems** |  |  |
| Aug 30Monday | 10-12  13-14  14.30-16 | **Introduction to the master’s program** (only for students in the SFS program)  **Introduction to the course** (**PT, BB**)  Social activitiesfor all students attending the course | Särimner, VHC  Zoom  Outdoor |  |
| Aug 31 Tuesday | 9-11  13-14 | **Lecture 1**: *Food systems - an introduction* (**BB**) + introduction to Task 1 (**BB, PT**)  **Lecture 2a**: *Resource use and food systems* (**JK**) | Zoom  Zoom | Food systems & natural resources.  Chapter 1-5. UNEP.  FCRN food source. Chapter 1 |
| Sep 1 Wednesday | 13-16 | **Sustainable studies**: study strategies and study techniques (workshop for all new master’s students)  *(also given in Swedish 8 September 13-16)* | Zoom | https://student.slu.se/en/sw-calendar/2021/9/sustainable-studies-study-strategies-and-study-technique/ |
| Sep 2 Thursday | 13-15  15-16 | **Lecture 3**: *How our diets affect nutrition, health and environment* (**NS**)  Drop-in session for Questions for task 1 | Zoom  Zoom | FCRN Chapter 7 and 9 |
| Sep 3  Friday | 9-11  13-16.30 | **Lecture 2b**: *Environmental impact of food systems* (**JK**)  **PRESENTATIONS:** Individual task 1*(Local food systems around the world)* (**BB, PT**) | Zoom  A241 +Framtiden | UNEP. Chapter 7, Annex 1.  Foley et al 2011. IPBES 2019. |
| Sep 6  Monday | 10-12  13-14  14-17 | **Lecture 4**: *Social sustainability and food system* (**NC**)  Instruction **Task 2** (*Future food systems,* **BB**)  Start work on Task 2 | Zoom  Zoom | The EU. 2020. Farm to fork strategy.  Task 2: Reports from FAO, IDDRI and WRI |
| Sept 7  Tuesday | 8-17 | Preparation: Task 2 |  |  |
| Sept 8  Wednesday | 9-11 | **Lecture 5:** *Climate change and food systems* (**BB**) | Zoom | Myers et al 2017  FCRN chapter 3-4 |
| Sept 9  Thursday | 8-17 | Preparation: Task 2 |  |  |
| Sept 10  Friday | 10-15 | **SEMINAR task 2**: *Narratives and scenarios for future food systems* (**BB, PT, MK**)  Discussion based on reports. Send in your reflection notes afterwards. | A241, sal N |  |
|  |  | **THEME 2. Food production chains** |  |  |
| Sept 13  Monday | 10-11  11-12  13-15 | Introduction to group work: production chains (PT)  **Lecture 6**. *Crop production: resource use and environmental impact* (**PT**)  **Lecture 7.** *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 14  Tuesday | 9-12  13-16 | **USE and HANDLE INFORMATION** (**MP, SL**)  **FIELD TOUR:** *Crops and cropping systems in the surroundings of Ultuna* (**GB**) | Zoom  Campus Ultuna |  |
| Sept 15  Wednesday | 9-12  13-17 | **Lecture 8:** Livestock: past, present and future role in food systems (**ML**)  Group work | Zoom | FCRN food source. Chapter 8; van Zanten et al. 2019 |
| Sept 16  Thursday | 8-17 | Group work |  |  |
| Sept 17  Friday | 9-12 | **Lecture 9:** *Aquatic Resources in global food systems* (**JHS**) | Zoom | Costello et al 2020 |
| Sept 20 Monday | 10-12 | **Lecture 10.** *Between farm and fork: processing and manufacture of food* (***BB****)*  Group work | Zoom | Christopher 1998. Chapter 1  Dani 2015 |
| Sept 21 Tuesday | 10-12 | **Lecture 11.** Food safety in food systems (**IV**) | Zoom | Martiin 2014. Chapter 21 |
| Sept 22  Wednesday | 9-12 | **Lecture 12:** *Transport system: from local to global distribution in different settings* (DL) | Zoom | Dani 2015 |
| Sept 23  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 24  Friday |  | **STUDY VISIT** on nutrient recycling systems (**AN**, PS)  Group work | Campus |  |
| Sept 27  Monday | 8-17 | Group work |  |  |
| Sept 28  Tuesday | 8-17 | Group work |  |  |
| Sept 29  Wednesday | 8-12  13-16 | Group work**: 17.00 deadline for written report** Educational information for master students |  |  |
| Sept 30  Thursday | 8-17 | Group work: preparation for the seminar (see canvas) |  |  |
| Oct 1  Friday | 10.00-15  15-17 | **PRESENTATIONS:** Group work (**PT**, DL, **JK**)  Time for complementing the reports | A241, C212, C213, C216, Y |  |
|  |  | **THEME 3. Sustainability assessment** |  |  |
| Oct 4  Monday | 9-10.30  13-15 | Introduction to theme 3 (**PT**)  **Lecture 15:** *Intro to systems thinking & systems analysis. Evaluating and weighting environmental, economic and social criteria.* (**JMC**)  **Exercises 1+2**: Drawing systems & Multi-criteria decision-making roleplay (**JMC, PT**) | Zoom  Zoom  Särimner | Kim 1999  Supplement to: Raworth K. 2017  Müller. 2007. |
| Oct 5 Tuesday | 9-12  13-14  14-16 | **Lecture 16:** *Introduction to life cycle assessment* (**PT**)  Introduction to **LCA exercise** (MS)  Individual work: LCA exercise on assigned crop | Zoom  Zoom | Food source chapter 2, Gulisano et al 2018, Notarnicola et al 2017. |
| Oct 6  Wednesday | 8-17 | **Group work LCA** | Datorsal 1-3 MVM 10-15 | See detailed information on canvas |
| Oct 7  Thursday | 8-17 | **Group work LCA** | Datorsal 2 Ulls hus 8-12 | See detailed information on canvas |
| Oct 8  Friday | 10.00-12.00 | **SEMINAR:** Presentation and discussion of the results from jigsaw groups(HKP, MS) | Lennart Kennes sal + O1 |  |
| Oct 11  Monday | 9-11  11-12 | **Lecture 17:** *Indicators and tools for sustainable production and consumption of food* (**PT**)  Introduction to individual task 3 | Zoom  Zoom | Röös 2017  *For Task 3, see separate literature list*. |
| Oct 12  Tuesday | 8-17 | Individual task 3 |  |  |
| Oct 13  Wednesday | 8-17 | Individual task 3 |  |  |
| Oct 14  Thursday | 10-17 | Individual task 3 |  |  |
| Oct 15  Friday | 8-17 | **Deadline for written individual report 18.00** |  |  |
| Oct 18 |  |  |  |  |
| Oct 19 |  |  |  |  |
| Oct 20 |  |  |  |  |
| Oct 21 |  |  |  |  |
| Oct 22  Friday |  | **EXAM** |  |  |
|  |  | **THEME 4. Innovative food products and systems** |  |  |
| Oct 25  Monday | 9-11  11-17 | **INTRODUCTION to theme 4 and Task 4** (**JMC**)  Preparation**:** Task 4. | Zoom |  |
| Oct 26  Tuesday | 8-17 | Preparation**:** Task 4 |  |  |
| Oct 27  Wednesday | 8-17 | Preparation: Task 4**.** |  |  |
| Oct 28  Thursday |  | **Deadline group assignment 16.00** |  |  |
| Oct 29  Friday |  | Preparation for group presentation  **Deadline individual assignment 17.00** |  |  |
| Nov 1  Monday | 10-17 | **PRESENTATIONS**: Task 4 (**JMC, PT**)  Course evaluation | Sal L |  |

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

**Lecturers**

Bojana Bajzelj (BB)

David Ljungberg (DL)

Göran Bergkvist (GB)

Hanna Karlsson Potter (HKP)

Ivar Vågsholm (IV)

Jennifer McConville (JMC)

Johan Karlsson (JK)

Jonas Hentati Sundberg (JHS)

Malin Persson (MS)

Matthew Kessler (MK)

Mattias Eriksson (ME)

Maximilian Schulte (MS)

Mikaela Lindberg (ML)

Nathan Clay (NC)

Niina Sundin (NS)

Pernilla Tidåker (PT)

Sabina Lundberg (SL)