**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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| --- | --- |
| Introduction to food system sustainability | 2 weeks  |
| Food production chains | 3 weeks |
| Sustainability assessment | 3 weeks |
| Innovative 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  | 10-1213-1414.30-16 | **Introduction to the master’s program****Introduction to the course** (**PT, BB**)Social activitiesfor all students attending the course | Sal XXXXSal XXXXOutdoor  |  |
| 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**) | ZoomZoom | 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 | 13-1515-16 | **Lecture 3**: *How our diets affect nutrition, health and environment* (**NS**)Drop-in session for Questions for task 1 | ZoomZoom | FCRN Chapter 7 and 9  |
| Sep 3 Friday | 9-1113-16.30 | **Lecture 2b**: *Environmental impact of food systems* (**JK**)**PRESENTATIONS:** Individual task 1*(Local food systems around the world)* (**BB, PT**) | ZoomA241 +Framtiden | UNEP. Chapter 7, Annex 1.Foley et al 2011. IPBES 2019. |
| Sep 6Monday | 10-1213-1414-17 | **Lecture 4**: *Social sustainability and food system* (**NC**) Instruction **Task 2** (*Future food systems,* **BB**)Start work on Task 2 | ZoomZoom | The EU. 2020. Farm to fork strategy.Doughnut Economy?Task 2: Reports from FAO, IDDRI and WRI |
| Sept 7Tuesday | 8-17 | Preparation: Task 2 |  |  |
| Sept 8Wednesday | 9-11 | **Lecture 5:** *Climate change and food systems* (**BB**) | Zoom | Myers et al 2017FCRN chapter 3-4 |
| Sept 9 Thursday | 8-17 | Preparation: Task 2 |  |  |
| Sept 10Friday | 10-15 | **SEMINAR task 2**: *Narratives and scenarios for future food systems* (**BB, PT**)Discussion based on reports. Send in your reflection notes afterwards. | A241 |  |
|  |  | **THEME 2. Food production chains** |  |  |
| Sept 13Monday | 10-1111-1213-15 | Introduction to group work: production chains (PT) **Lecture 7**. *Crop production: resource use and environmental impact* (**PT**)**Lecture 8.** *Crops, yields and cropping systems* (**GB**) | ZoomZoomZoom | Vitousek et al 2009, Naylor et al 2005, Muller et al 2017Reganold & Wachter 2016; Garnett et al. 2013. |
| Sept 14 Tuesday | 9-1213-16 | **USE and HANDLE INFORMATION** (**MP, SL**)**FIELD TOUR:** *Crops and cropping systems in the surroundings of Ultuna* (**GB**)  | ZoomCampus Ultuna |  |
| Sept 15Wednesday | 9-1213-17 | **Lecture 9:** Livestock: past, present and future role in food systems (**ML**)Group work | Zoom  | FCRN food source. Chapter 8; van Zanten et al. 2019 |
| Sept 16Thursday | 8-17 | Group work |  |  |
| Sept 17Friday | 9-12 | **Lecture 6:** *Aquatic Resources in global food systems* (**JHS**) | Zoom | Costello et al 2020  |
| Sept 20 Monday |  | Group work**Lecture 10.** *Between farm and fork: processing and manufacture of food* (***BB****)* | Zoom | Christopher 1998. Chapter 1Dani 2015 |
| Sept 21 Tuesday | 10-12 | **Lecture 12.** Food safety in food systems (**IV**) | Zoom | Martiin 2014. Chapter 21  |
| Sept 22Wednesday |  | **Lecture 11:** *Transport system: from local to global distribution in different settings* (DL) | Zoom | Dani 2015 |
| Sept 23Thursday | 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 24Friday |  | **STUDY VISIT** on nutrient recycling systems (**AN**, PS)Group work | Campus |  |
| Sept 27Monday | 8-17 | Group work |  |  |
| Sept 28Tuesday | 8-17 | Group work  |  |  |
| Sept 29Wednesday | 8-1213-16 | Group work**: 17.00 deadline for written report** Educational information for master students |  |  |
| Sept 30Thursday | 8-17 | Group work: preparation for the seminar (see canvas) |  |  |
| Oct 1Friday | 10.00-1515-17 | **PRESENTATIONS:** Group work (**PT**, DL, BB, **JK**)Time for complementing the reports | A241, C212, C213, C216, Y |  |
|  |  | **THEME 3. Sustainability assessment** |  |  |
| Oct 4Monday | 9-10.3013-15 | 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**) | ZoomZoomSärimner | Kim 1999Supplement to: Raworth K. 2017Müller. 2007.  |
| Oct 5 Tuesday | 9-1213-1414-16 | **Lecture 16:** *LCA Method* (**PT**) Introduction to **LCA exercise** (MS)Individual work: LCA exercise on assigned crop | ZoomZoom | Food source chapter 2, Gulisano et al 2018, Notarnicola et al 2017.  |
| Oct 6Wednesday | 8-17 | **Group work LCA** | Campus Ultuna | See detailed information on canvas |
| Oct 7Thursday | 8-17 | **Group work LCA** | Campus Ultuna | See detailed information on canvas |
| Oct 8Friday | 10.00-12.00 | **SEMINAR:** Presentation and discussion of the results from jigsaw groups(HKP, MS) | Lennart Kennes sal |  |
| Oct 11Monday | 9-1111-12 | **Lecture 17:** Indicators and tools for sustainable production and consumption of food (PT)Introduction to individual task 3 | ZoomZoom | Röös 2017*For Task 3, see separate literature list*. |
| Oct 12Tuesday | 8-17 | Individual task 3 |  |  |
| Oct 13Wednesday | 8-17 | Individual task 3 |  |  |
| Oct 14Thursday | 10-17 | Individual task 3 |  |  |
| Oct 15Friday | 8-17 | **Deadline for written individual report 18.00** |  |  |
| Oct 18  |  |  |  |  |
| Oct 19  |  |  |  |  |
| Oct 20  |  |  |  |  |
| Oct 21 |  |  |  |  |
| Oct 22Friday |  | **EXAM** |  |  |
|  |  | **THEME 4. Innovative food products and systems** |  |  |
| Oct 25Monday | 9-1111-17 | **INTRODUCTION to theme 4 and Task 4** (**JMC**)Preparation**:** Task 4.  | Zoom  |  |
| Oct 26Tuesday | 8-17 | Preparation**:** Task 4 |  |  |
| Oct 27Wednesday | 8-17 | Preparation: Task 4**.**  |  |  |
| Oct 28Thursday |  | **Deadline group assignment 16.00**  |  |  |
| Oct 29Friday |  | Preparation for group presentation**Deadline individual assignment 17.00** |  |  |
| Nov 1Monday | 10-17 | **PRESENTATIONS**: Task 4 (**JMC, PT**)Course evaluation  | Lennart Kennes sal |  |

**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)

Mattias Eriksson (ME)

Maximilian Schulte (MS)

Mikaela Lindberg (ML)

Nathan Clay (NC)

Niina Sundin (NS)

Pernilla Tidåker (PT)

Sabine Lundberg (SL)