

MX0146- Sustainable food production - challenges and cropping system solutions 2025

Course takes place between 17.15-20.00 in Sal-F, in Ecology Centrum, on campus Ultuna

L: Lecture, WS: Workshop, A: Assignment

| Week | Date | Title | Teacher | Format |
|------|---------------|--|---------------|----------------|
| 4 | Tue 21-Jan-25 | Course Introduction | FB & JC | L |
| | | Introduction to sustainable cropping systems: why are they important? | GB | |
| 5 | Tue 28-Jan-25 | Introduction to project work | FB & JC | L |
| | | Integrated pest management - insects, diseases, and weeds | FB, ED & DH | |
| 6 | Tue 04-Feb-25 | Integrated pest management - insects, diseases, and weeds | FB & DH (&ED) | WS (mandatory) |
| 7 | Tue 11-Feb-25 | Introduction to Life cycle assessment | PT | L (mandatory) |
| 8 | Tue 18-Feb-25 | Major food crops and their sustainability challenges | GB | L |
| 9 | Tue 25-Feb-25 | Major food crops and their sustainability challenges | GB | WS (mandatory) |
| 10 | Tue 04-Mar-25 | Plant-based protein production systems | ML | L |
| 11 | Tue 11-Mar-25 | Plant nutrient management for efficient crop production and reduced environmental impact | HA | L |
| 12 | Tue 18-Mar-25 | Plant nutrient management for efficient crop production and reduced environmental impact | HA | WS (mandatory) |
| 13 | Tue 25-Mar-25 | Economic perspectives on sustainable food production | MS | L (mandatory) |
| 14 | Tue 01-Apr-25 | Global perspectives on challenges to agricultural sustainability | ML | L |
| 15 | Tue 08-Apr-25 | Global perspectives on challenges to agricultural sustainability | ML | WS (mandatory) |
| 16 | Tue 15-Apr-25 | EASTER BREAK (Påsklov) | - | |
| 17 | Tue 22-Apr-25 | Climate change and cropping systems: the two way interactions | ML | L |
| 18 | Tue 29-Apr-25 | Climate change and cropping systems: the two way interactions | ML | WS (mandatory) |
| 19 | Tue 06-May-25 | Organic production | JS & KU | L |
| 20 | Tue 13-May-25 | Organic production (Field Trip) | JS & KU | WS (mandatory) |
| 21 | Tue 20-May-25 | Project presentation | FB & JC | A |
| 22 | Tue 27-May-25 | Project presentation | FB & JC | A |
| 23 | Tue 03-Jun-25 | Project presentation, conclusions, and evaluation | FB & JC | A |

Course Teachers

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|------------------------|----|--|-----------------------|----|--|
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