

Feeding a Hungry Planet Course Syllabus

Module 1: The global challenges around food

- 1.1 Introduction to this MOOC
- 1.2 Global challenges around food
- 1.3 Case study 1: Rice
- 1.4 Case study 2: Smallholder farming
- 1.5 Case study 3: Livestock
- 1.6 Case study 4: Aquaculture

Module 2: Agriculture at the center of sustainable development

- 2.1 Emergence of modern agriculture
- 2.2 Risks under a Business-As-Usual scenario
- 2.3 Agriculture & the Sustainable Development Goals

Module 3: Food systems for nutritional security and better health

- 3.1 What is food security?
- 3.2 Nutrition and health
- 3.3 Consumption and diets
- 3.4 Food losses and waste
- 3.5 Socio-economic dynamics of food systems
- 3.6 Pathways towards food security

Module 4: Sustainable intensification of agricultural systems – Part 1

- 4.1 Sustainable agriculture intensification
- 4.2 The importance of productivity growth
- 4.3 Climate change adaptation and mitigation
- 4.4 Breeding and genetics
- 4.5 Nutrient management
- 4.6 Soil fertility management

Module 5: Sustainable intensification of agricultural systems – Part 2

- 5.1 Water management
- 5.2 Crop protection
- 5.3 Good agronomy
- 5.4 Sustainable livestock systems
- 5.5 & 5.6 Functional diversity I & II

Module 6: Rural development for poverty alleviation

- 6.1 Rural economies and urban linkages
- 6.2 Rural development
- 6.3 Markets and supply chains
- 6.4 International trade
- 6.5 Development enhancing investments
- 6.6 Food governance

Module 7: Action for change

- 7.1 Pathways to change
- 7.2 Monitoring change
- 7.3 Mechanisms to stimulate change
- 7.4 Investing in science
- 7.5 What can I do?