



UNIVERSITÀ  
CATTOLICA  
del Sacro Cuore

## Technology for Food Safety – Principles of food protection

Prof. VITTORIO ROSSI

### COURSE AIMS

Students will gain an understanding of the implications of certain plant-protection issues on the management of crops and agri-food products at the farm and supply-chain level, within the national and international regulatory context.

### COURSE CONTENTS

Definition of disease, classification of diseases, damage caused by diseases, primary (direct and indirect) and secondary damage. Crop protection. Plant protection products and problems related to their use.	1
Principles of crop protection in conventional, integrated and organic farming systems. Evolution of integrated crop protection towards sustainable agriculture. Methods for integrated production and integrated farming. The sustainable use of plant protection products in the current Italian and European regulatory framework.	2.5
Harmful organisms of relevance from a plant protection perspective. The international regulatory framework under the IPPC (International Plant Protection Convention). Analysis of risks arising from the introduction of harmful organisms (Pest Risk Analysis) and the attendant plant protection regulations. Role of national plant protection organisations, of the EPPO (European Plant Protection Organisation) and of the EFSA (European Food Safety Agency). Illustration of some case studies.	1
Mycotoxins and food safety. Supply-chain approach to managing the problem of mycotoxins; case-study of autumn-winter cereals.	0.5

### SCHEDULE

Fall semester

### TEACHING METHOD

Lectures and discussions on case studies.



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## COURSE REQUIREMENTS

It is strongly recommended to attend classes.

## CREDITS

5 ECTS

## ASSESSMENT METHOD

The test consists of two parts:

- In the first part the student will have to give written answers to 30 questions in a maximum of 60 minutes;
- In the second part the commission will assign a score from zero to one to each of the written replies given by the student, also in relation to specific questions designed to clarify the written answers provided by the student, to deepen specific topics and assess the capacity of reasoning and analysis on the course topics, as well as the properties of language and communication skills.

Further information can be found on the Faculty notice board. Professor Vittorio Rossi will receive students at the time posted.

## COURSE READINGS AND MATERIALS

There is no course textbook; a reading list will be provided during the course.

## E-MAIL ADDRESS

[vittorio.rossi@unicatt.it](mailto:vittorio.rossi@unicatt.it)