

PhD Course in Animal and Food Science

PhD Training Program

TO BE APPROVED BY THE COUNCIL OF THE PHD COURSE

PhD student (surname and name):		CYCLE:	XXXIX
Supervisor:			
Co-supervisor (if any)			
Research area (at least 2 –3 keywords)			
Research topic (Title and short abstract)			

Methodological approaches

Expected results (research stages abroad, publications, participation to national and international congresses, patents, etc.)

Participation in research projects:

Educational offer

The student, together with her/his supervisor, must select the courses that she/he would like to attend among those listed below, included in the Educational Offer of the Course. The minimum requirement is **at least 12 ECTS**. Some compulsory courses are already marked by [X]. The PhD student can also select further courses for the **Cross-curricular training activities and soft skills** as proposed below.

Additional courses included in the Educational Offer of the PhD Courses of Agripolis, and [here](#) available, could be selected by the students, but do not contribute to satisfy the minimum requirements.

The calendar of the courses is available [here](#).

DISCIPLINARY TRAINING ACTIVITIES (AT LEAST 12 ECTS)

[] **Nutrigenomics in livestock sector** (1 ETCS)

Teacher: Diana Giannuzzi

[] **Animal welfare assessment and risk management** (1 ETCS)

Teacher: Flaviana Gottardo

[] **Integrated assessment of sustainability in livestock system** (1.5 ETCS)

Teacher: Marco Berton, Francesco Bordignon, Marco Schiavon

[] **Food Microbiota & Human microbiome** (1 ETCS)

Teachers: Alessio Giacomini, Viviana Corich

[] **Food technology** (1 ETCS)

Teacher: Anna Lante

[] **Animal-based Vs. Plant-based foods** (1 ETCS)

Teachers: Massimo De Marchi, Giovanni Niero

[] **Theoretical and Practical Bioinformatics Approaches in Animal and Food Science** (4 ECTS)

Teachers: Piergiorgio Stevanato, Samathmika Ravi (DAFNAE)

[] **Econometric models to inform environmental resources management and food policies** (1 ECTS)

Teachers: M. Thiene, C. Franceschinis (TESAF)

[] **Strategies and tools to reduce environmental impacts: the case of LCA methodology** (3.5 ETCS)

Teachers: M. Masiero & M. Zanetti

[] **Scientific Writing in English** (4 ECTS)

Teacher: Mark E. Olson

[] **Basic Statistics** (3 ECTS)

Teachers: Marco Borga and Giulia Zuecco

[] **Applied Statistics with Applications in R** (2 ECTS)

Teachers: Alessio Cecchinato, Sara Pegolo (DAFNAE)

[] **Advances Statistics with R: Experimental Design in Lab and Field** (1.5 ECTS)

Teachers: Roberto Mantovani, Ilaria Piccoli (DAFNAE)

[] **Advances Statistics with R: Mixed Models** (2 ECTS)

Teachers: Cristina Sartori (DAFNAE)

The role of the Principal Investigator (1 ECTS)

Teacher: Giancarlo Renella

How to prepare and present a scientific paper (1.5 ECTS)

Teachers: S. Segato & D. Pettenella (MAPS, TESAF)

CROSS-CURRICULAR TRAINING ACTIVITIES AND SOFT SKILLS

LINGUISTIC

English language

Teacher: Centro Linguistico di Ateneo (CLA)

Italian language for foreigners

Teacher: Centro Linguistico di Ateneo (CLA)

INFORMATICS AND STATISTICS

Spatial Statistics (2 ECTS)

Teacher: M. Borga, G.Zuecco (TESAF)

Introduction to GIS (1.5 ECTS)

Teacher: R. Rossi (TESAF)

Geomatics and Earth Surface Modelling (0.5 ECTS)

Teacher: F. Pirotti (TESAF)

Introduction to programming in Python (0.5 ECTS)

Teacher: M. Zaramella

Introduction to R for statistical analysis (0.5 ECTS)

Teacher: G. Zuecco (TESAF)

RESEARCH MANAGEMENT, KNOWLEDGE OF RESEARCH SYSTEMS AND FINANCING PROGRAMS

Introduction to Mendeley (0.5 ECTS)

Teacher: A. Leonardi

Data collection: from questionnaires to participatory approaches (2 ECTS)

Teachers: Elena Pisano, Laura Secco, Riccardo Da Re, Catie Burlando, Rudi Cassini

Spatial statistics in socio-economic research (2 ECTS)

Teachers: F.Pagliacci (TESAF)

Health and Safety at work (NO ETCS)

IPR AND IPR EXPLOITATION

Dissemination of science: contents and tools (1.5 ECTS)

Teacher: Massimo Polidoro

The evaluation of research output: the Italian assessment framework (1.0 ECTS)

Teacher: (E. Defrancesco)

BASIC PRINCIPLES OF ETHICS, GENDER EQUALITY, AND INTEGRITY

[] **Ethics in scientific research** (2 ECTS)

Teacher: Ana Borovecki

[] **Ethics in writing and reviewing** (0.5 ECTS)

Teacher: Marco Borga (TESAF)

[] **Research integrity: pills of ethics before spritz break** (4 events - 1.5 h)

Teachers: M. Giantin & A. Squartini

SEMINARS

The PhD Course frequently organizes seminars with the collaboration of the Professors and the contribution of the PhD students of the Course. Seminars are held by experts, PhD students, visiting PhD, visiting professors and visiting researchers at the University of Padua (DAFNAE, BCA and MAPS). The offer of the seminars is always shared with the other PhD Courses in Agripolis and is regularly announced on the NEWS section of the Course web page, besides being reported in the calendar of the teaching activity shared in Agripolis.

Additionally, the following activities are offered:

[X] **Welcome to research** in Animal and Food Science and Crop Science PhD Courses

Teacher: Nicola Bertin

[] **PhD educational week on transferable skills** (organized by UNIPD)

[] **Yearly WORKSHOP** of the Italian Network of the PhD Courses in Food Science, Technology and Biotechnology

ADDITIONAL DISCIPLINARY COURSES OR CROSS-CURRICULAR TRAINING ACTIVITIES AND SOFT SKILLS

Additional Courses or cross-curricular activities and soft skills (already included in the Educational Offer of the PhD Courses of Agripolis or selected elsewhere by the PhD student with his/her supervisor) can be selected and already specified at the time of the submission of the individual training course to the Council by the PhD students. These Courses do not contribute to satisfy the minimum requirements.

Please, note that Courses offered within any Bachelor and/or Master cannot be included in this list.