



PhD Course in CROP SCIENCE



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Individual Training Plan

<p>Requirements of the individual training plan</p> <p>For each PhD student the individual training plan is established together with the supervisor. The training plan usually includes the courses as described below, to be chosen among the activities included in the training offer (see the list below).</p> <p>ECTS value is equivalent to 25 hours of training which is the sum of 4 to 8 hours of lectures – depending on the complexity of the course – and of the remaining hours for personal study.</p> <p>Courses are usually attended during the first year. In case this is not possible they could be attended in the following years.</p> <p>Upon approval of their supervisors, PhD students can ask to replace some courses with equivalent ones organized by other PhD programs, even abroad. The replacements must be based on a reasoned justification.</p> <p>For Crop Science it is mandatory to attend:</p> <ul style="list-style-type: none"> - <i>Courses specific for Crop Science</i> 2 courses for a total of 2 ECTS - <i>Cross-disciplinary</i> and <i>Soft skills</i> activities: 8 courses for a total of 15 ECTS
<p>Aims of the individual training plan</p> <p>The training activity is meant to let PhD students acquire the competences needed to carry out research in a specific scientific field. In this context both specific and cross disciplinary competences must be defined. PhD students, together with their supervisors, identify the competences to be acquired, considering the specific object of their research.</p>
<p>Training Offer</p> <p>Attend scheduled courses and assessments</p> <ol style="list-style-type: none"> 1. Definition of Course <i>Teaching activity of at least 1 ECTS (lectures of 4 to 8 hours) including: 1. A final assessment; 2. Compulsory attendance of at least 70% of the lecture; 3. Evaluation of the lecture by the PhD student.</i> A complete list of available courses can be found below. 2. Definition of Seminar <i>Teaching activity, the total duration of which is less than 4 hours. Seminars are taught by qualified staff on highly specialized or crosscutting themes.</i> A continuously upgraded agenda can be found here: <u>BachecAgripolis</u>
<p>Type of Training offer</p> <ol style="list-style-type: none"> a. <u>Compulsory course</u>. To complete their training, PhD students <i>must</i> attend those courses indicated as “compulsory”.

b. <u>Specialized course</u> . To complete their training, PhD students <i>can</i> attend specialized courses.
c. <u>Soft skills course</u> . To complete their training, PhD students <i>must</i> attend the suggested number of soft skills courses.
d. <u>Seminars</u> . To complete their training, PhD students <i>must</i> attend at least four seminars (1 ECTS).
e. <u>Group activities</u> . To complete their training PhD students <i>can</i> take part in group activities.
f. <u>Winter/Summer Schools</u> To complete their training PhD students <i>must</i> attend Winter/Summer Schools .
g. <u>Other training activities</u> . PhD students can take part in other training activities to complete their compulsory training (e.g. courses organized by other PhD programmes at UNIPD or in other Universities, even abroad, Master course lectures, courses organized by qualified sector associations, etc.)
h. <u>Conferences</u> . To complete their compulsory training PhD students <i>can</i> attend conferences.

Training offer

On the basis of the above definitions, the student, together with the supervisor, must mark by an **X** the courses that she/he would like to attend, considering that the minimal requirement is **at least 15 ECTS**. Specifically, the student must select 8 courses among the list below. **Two compulsory courses are already marked** within *Cross-disciplinary courses* and the PhD student has to select further six courses among all the **ELIGIBLE** ones (not marked). Three out of six courses must be selected among the **Soft skills: research organization and communication**.

Additional courses listed under *Other activities* could be selected, but do not contribute to satisfy the minimal requirements (the ECTS reported are referred to other PhD Courses).

Beside the minimal requirements, the students of Crop Science have **2 additional compulsory courses** (during the Winter School, last week of January; see *Courses specific for Crop Science*).

Updated details related to dates, syllabus, teaching rooms of each course will be in the website of Doctorate in Crop Science

ELIGIBLE COURSES

Courses specific for Crop Science

<input checked="" type="checkbox"/>	Winter School 1 Experimental design in Crop Science: principles. (1 ECTS= 8 hr) Teachers: Changing every year Where: Paluzza (UD) When: last week of January
<input checked="" type="checkbox"/>	Winter School 2 Experimental design in Crop Science: from lab to field. (1 ECTS=8hr) Teachers: Changing every year Where: Paluzza (UD) When: last week of January
<input type="checkbox"/>	Living organisms as biorefineries toward a more sustainable future (0.5 ECTS) Teachers: Willem H. van Zyl Where: TBD When: TBD
<input type="checkbox"/>	Biotechnological approaches in the biorefinery concept (0.5 ECTS) Teachers: Willem H. van Zyl Where: TBD When: TBD
<input type="checkbox"/>	Scientific communication (1 ECTS) Teachers: Maria Flora Mangano Where: TBD When: TBD

Cross-disciplinary courses

1. Statistics

[X]	Basic Statistics (3 ECTS=12 hr) Teachers: Marco Borga and Giulia Zuecco Where: TBD When: TBD
[X]	Applied Statistics with Applications in R (2 ECTS= 8 hr) Teachers: Alessio Cecchinato and Hugo Toledo Alvarado Where: TBD When: TBD
[]	Advances Statistics with R: Experimental Design in Lab and Field (2 ECTS= 8hr) Teachers: Roberto Mantovani, Nicola Dal Ferro Where: TBD When: TBD
[]	Spatial statistics (2 ECTS= 8 hr) Teachers: Marco Borga and Giulia Zuecco Where: TBD When: TBD
[]	Advances Statistics with R: Mixed Models (2 ECTS=8hr) Teachers: Cristina Sartori, Hugo Toledo Alvarado Where: TBD When: TBD

Research management, knowledge of research system and financing program

[]	The role of the Principal Investigator (1 ECTS) Teacher: Giancarlo Renella Where: TBD When: TBD
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Others (Soft skills: research organization and communication)

[]	Introduction to Mendeley (1 ECTS=8hr) Teachers: Alessandro Leonardi Where: TBD When: TBD
[]	Scientific Writing in English (4 ECTS= 32 hr)) Teacher: Mark E. Olson Where: TBD When: TBD
[]	How to prepare a scientific paper (2 ECTS= 16 hr) Teachers: Giulio Cozzi and Enrico Sturaro Where: TBD When: TBD
[]	How to present a scientific paper (1 ECTS=8 hr) Teacher: Davide Pettenella Where: TBD When: TBD

[]	<p>How to disseminate a scientific knowledge - 1 (introd) + 2 ECTS (each module) =40 hr Teacher: Massimo Polidoro Where: TBD When: TBD</p>
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OTHER ACTIVITIES (the ECTS reported are referred to other PhD Courses)

[]	<p>English language (1 ECTS) Teacher: Centro Linguistico di Ateneo (CLA) Where: CLA When: at the student's choice</p>
[]	<p>Italian language for foreigners (1 ECTS) Teacher: Centro Linguistico di Ateneo (CLA) Where: CLA When: at the student's choice</p>
[]	<p>Health and Safety at work (no ECTS) Course on line available in Italian at present - (in progress for the English version) When: at the student's choice</p>
[]	<p>Safety in the laboratory (on line)</p> <ul style="list-style-type: none"> • 1° lezione • 2° lezione
[]	<p>Corso di "Cultura in Ecologia" (4 ECTS) Teacher: TBD Where: TBD When: TBD</p>
[]	<p>Categorical data analysis (2 ECTS) Teacher: Enrico Sturaro Where: TBD When: TBD</p>
[]	<p>Introduction to network analysis (2 ECTS) Teacher: Riccardo Da Re Where: TBD When: TBD</p>
[]	<p>Introduction to programming in Matlab (4 ECTS) Teachers: Giulia Sofia and Cristian Taccioli Where: TBD When: TBD</p>
[]	<p>Introduction to GIS (2 ECTS) Teacher: Roberto Rossi Where: TBD When: TBD</p>
[]	<p>Geomatics and digital terrain modelling (3 ECTS) Teacher: Andrea Masiero Where: TBD When: TBD</p>
[]	<p>Data collection: from questionnaires to participatory approaches (2 ECTS) Teachers: Elena Pisano, Laura Secco, Riccardo Da Re, Catie Burlando and Rudi Cassini Where: TBD</p>

	When: TBD
<input type="checkbox"/>	Ecosystem services and products: from ideas to business (6 ECTS) Teacher: professors from UNIPD, University of Manchester, Universidad Politécnica de Madrid, Transylvania, University of Brasov and other organizations Where: on line (see the web site of the course that will run under Moodle platform) When:
<input checked="" type="checkbox"/>	Welcome day (No ECTS) Organized by: the PhD Coordinators Where: TBD When: First week of october
<input checked="" type="checkbox"/>	Welcome to DAFNAE (No ECTS) Organized by: the PhD Coordinators Where: Aula Bonsembiante When: third week of October
<input checked="" type="checkbox"/>	Welcome to Research (No ECTS) Organized by: Dr. Nicola Bertin Where: Aula Bonsembiante When: last week of October

Please list here the courses not listed above you will attend. You can choose courses provided by other PhD courses, even of other universities when you are abroad.

<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

Seminars:

The PhD student must attend at least **4 seminars** which will account for **1 ECTS**. The list of seminars attended must be reported within the periodic reports to be produced at the end of each year.

Any changes of your educational program should be communicated and approved by the Council of the course.