

Ph.D. PROGRAMME IN ECOLOGY AND SUSTAINABLE MANAGEMENT OF ENVIRONMENTAL RESOURCES			
Coordinator	Prof. Claudio CARERE		
Department	Department of Ecological and Biological Sciences		
Program duration	3 years: 01 January 2023 – 31 December 2025 PhD thesis due: 30 November 2025		
Program objectives	<p>The PhD Program in "<i>Ecology and Sustainable Management of Environmental Resources</i>" is active at the Department of Ecological and Biological Sciences (DEB). It is an innovative program with high interdisciplinarity, in which themes of ecological, biological, agro- forestry and chemical sciences converge. The unifying theme is the application of general principles of Life Sciences for the purpose of sustainable management of environmental and natural resources: from biodiversity to agricultural and forestry resources, to biomolecules. The aim of the course is training in the field of basic and applied ecological research with particular focus on the sustainable use of natural resources, environmental management, eco-sustainable optimization of production processes (including the development of new green active compounds) and the mitigation of human impacts on biodiversity at all organization levels. PhD students will acquire the skills needed to address complex and multidisciplinary problems associated with both the research activity and the management and conservation of natural resources. From a training point of view, specific objectives are: i) to provide the skills needed to operate in highly multidisciplinary scientific research areas with a high degree of autonomy, originality and the use of rigorous methodological approaches; (ii) to drive the development of communication skills in presenting research results and in drafting competitive scientific projects. According to these goals, compulsory educational activities aimed at enhancing language proficiency, data analysis capabilities, and the ability to disseminate scientific results will be offered. The multidisciplinary nature of the research developed by the members of the Scientific Board ('Collegio dei Docenti') matches with the width of the course, including different disciplines ranging from green chemistry to forestry, from molecular genetics to evolutionary ecology also in relation to global change. PhD students will acquire the necessary skills to tackle complex and multidimensional problems related to research, management and conservation of nature and its resources.</p>		
Positions available	<p>The scholarship is intended to realize a research project in the following field:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">PNRR Scholarship AGRITECH</td> <td> <p>1. "<i>Alternative solutions for environmental friendly production of proteins for human consumption</i>" Contact persons: Prof. Claudio Carere, Dr. Silvia Proietti (DEB Department)</p> </td> </tr> </table>	PNRR Scholarship AGRITECH	<p>1. "<i>Alternative solutions for environmental friendly production of proteins for human consumption</i>" Contact persons: Prof. Claudio Carere, Dr. Silvia Proietti (DEB Department)</p>
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<p>Admission requirements</p>	<p>Application to the public competition is open to all who, by the date this call expires, possess one of the qualifications listed hereunder, regardless of age and citizenship:</p> <ul style="list-style-type: none"> - an Italian “laurea specialistica” obtained according to the Ministerial Decree n. 509/1999; - an Italian “laurea magistrale” obtained according to the Ministerial Decree n. 270/2004; - an Italian equivalent university degree obtained under Italian regulations previously in force and whose length is no less than 4 years; - a foreign degree equivalent to those mentioned above. <p>Admission is also open to those who will obtain their degree by the graduation session on December 2022. In such cases admission will be “conditional”; the applicants will send by mail (dottorati@unitus.it) or hand out to the “<i>Ufficio Offerta Formativa</i>” a self-certification of the relative degree (a certification in case of Non-EU students). Self-certification (or certification in case of Non-EU students) should state the name of the awarding University, award date, grade and type of qualification (“vecchio ordinamento”, “Specialistica”/“magistrale”) and a copy of a valid identity document. Applicants not possessing the admission requirements yet, must indicate the expected date of graduation/qualification.</p>
<p>Evaluation of candidates <i>(maximum score: 80/80 points)</i></p>	<p>Evaluation of academic qualification Oral examination, including knowledge of English language</p> <p>The evaluation of candidates will be based on:</p> <ul style="list-style-type: none"> - an evaluation of academic ranking that will precede the oral exam; - an oral examination. <p>The results of the evaluation of the academic ranking will be published on the Tuscia University website (www.unitus.it) at the section “<i>Didattica</i>” (then see under “<i>Dottorati di Ricerca</i>”).</p> <p>The score obtained will be added to the score of the oral examinations to give the final total. The results will be published on the Tuscia University web site at the section “<i>Didattica</i>” (“<i>Dottorati di Ricerca</i>”). Along with the application form, the candidates should present a research project concerning one of the topics of the Ph.D., with a maximum length of 3 pages, written in Italian or in English. The research project will be discussed during the oral exam.</p>

Evaluation of academic qualification (maximum score: 40/80 points)	<ul style="list-style-type: none"> - Academic career (Certificate with the list of marks obtained during the academic career and final graduation): max score: 12 points - Scientific publications related to the topics of Ph.D.: max score 12 points - Participation in research projects: max score: 8 points - Professional experiences and other qualifications considered useful: max score 8 points
Evaluation of the examination	<p>Oral examination: maximum score 40/80 points Minimum score to pass the exam: 21/80</p> <p>Language for the examinations: Italian (Italian candidates, with a further English exam) or English (foreign candidates)</p>
Examination topics	<p>The oral exam will be aimed at verifying the candidate's attitude for the scientific research and it will focus on the research project, the issues involved in the inquiry, its methodology and the fundamental knowledge and skills for carrying out the research.</p> <p>The required fundamental knowledge may concern, according to the project which is proposed, the following fields:</p> <ul style="list-style-type: none"> - Basic ecology - Marine ecology - Community ecology - Molecular ecology and phylogeny - Ecology and adaptation in extreme environments - Ecology of microorganisms - Forestry ecology - Landscape ecology - Conservation of nature and biodiversity - Environmental chemistry - Green chemistry - Methods and procedures in green chemistry - Bioindicators - Management and conservation of exploited and endangered species - Sustainable management of marine and coastal environment - Environmental hygiene - Parasitology - Ecotoxicology - Environmental risk - European Union Law - Administrative Law - Environmental Law - <p>The oral exam will focus on the discussion of the research project, as well as on the topics of the Ph.D. programme. It will be aimed to verify the candidate's attitude for the scientific research, besides his/her knowledge in the field of ecology.</p>

Exam dates and location	The exams will be held between 7 and 19 December 2022. The date(s) of the interview will be published on the University website at the site: <i>www.unitus.it >Didattica>Offerta post lauream> Dottorati di Ricerca</i> by the deadline of the Call for Application.
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