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Ph.D. Course Information Sheet

40th cycle - A.Y. 2024/2025

NAME OF THE PH.D. COURSE	AGRICULTURAL FOOD AND ENVIRONMENTAL SCIENCE
DURATION	3 years
START DATE	October 1st, 2024
LANGUAGE(S)	Italian, English
COORDINATOR	Prof. Antonio Biondi
PLACES IN THE PH.D. COURSE	19
SELECTION PROCEDURE	Evaluation of qualifications and research project; oral examination

Places and scholarships

Number of Scholarships	Financial support	Research topic associated to the scholarship (if any)
3	Funds of the University of Catania	
1	University NRRP Project Samothrace – Spoke 1	Perspectives of multi/hypersepctral thermal Infrared remote sensing for crop water stress detection
1	University NRRP Onfoods – Spoke 1	The sustainability perception of food products in the modern consumer
2	Federal University of Viçosa (Brazil) reserved to graduates from this University	
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration with Istituto di Incremento Ippico per la Sicilia, Catania (CT)	Tecnologie omiche per lo studio dei tratti funzionali nella specie <i>E. caballus</i> <i>Omic technologies for the study of functional traits in the E. caballus species</i>
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration with WES Trade Ltd, Ta'Xbiex, Malta	Effetto del cambiamento climatico sulle malattie delle piante: monitoraggio e previsione <i>Effect of climate change on plant diseases: monitoring and prediction</i>
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration with Consorzio di Bonifica Sicilia Orientale, Catania (CT)	Innovazioni per il trattamento delle acque reflue tramite sistemi naturali <i>Innovations for wastewater treatment using natural systems</i>
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration	Recupero, purificazione e valorizzazione di sostanze bioattive presenti negli effluenti della trasformazione

Ufficio Dottorato di ricerca

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	with Opera Consulting Sas, Catania (CT)	degli agrumi, delle olive e del nascente processo di trasformazione del melograno. <i>Recovery, purification and valorisation of bioactive substances present in the effluents of the processing of citrus fruits, olives and the nascent pomegranate transformation process.</i>
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration with Euroinfrastrutture Srl Costruzioni Generali, Santa Venerina (CT)	Ottimizzazione dell'integrazione tra Building Information Modeling (BIM) e Life Cycle Assessment (LCA) per la sostenibilità delle costruzioni <i>Optimization of the integration between Building Information Modeling (BIM) and Life Cycle Assessment (LCA) for construction sustainability</i>
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration with Azienda Agricola Tornatore, Castiglione di Sicilia (CT)	Interventi sul ciclo vegeto-produttivo della vite per l'adattamento al cambiamento climatico e il controllo a basso input dei patogeni. <i>Interventions on the vegetative-productive cycle of the vine for adaptation to climate change and low-input control of pathogens.</i>
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration with Azienda Agricola Bellassai Emanuele, Mazzarone (CT).	Le cover crop per il miglioramento della sostenibilità degli agroecosistemi mediterranei. <i>Cover crops for improving the sustainability of Mediterranean agroecosystems.</i>
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration with Corteva Agriscienze Italia S.r.l., Cremona (CR)	Nuove molecole insetticide di origine naturale per il controllo integrato di insetti fitomizi, con particolare riferimento ai vettori di microrganismi fitopatogeni agenti di gravi malattie delle colture agrarie. <i>New insecticidal molecules of natural origin for the integrated control of phytomyces insects, with particular reference to the vectors of phytopathogenic microorganisms causing serious diseases of agricultural crops.</i>
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration with Colleroni Srl, Carlentini (SR).	La sostenibilità nelle filiere agroalimentari. <i>Sustainability in agri-food supply chains.</i>
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration with BMC Srl, Linguaglossa (CT).	Paste alimentari innovative ai fini della sostenibilità. <i>Innovative pasta for sustainability purposes.</i>
1	NRRP M.D. n. 630/2024 – Inv. 3.3 in collaboration with Sacco Srl, Cadorago (CO).	Formulazione di una miscela di probiotici, vitamina D e riso integrale germogliato a valenza salutistica. <i>Formulation of a mixture of probiotics, vitamin D and healthy sprouted brown rice.</i>



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One place without scholarship is available in addition to the places with scholarship reported in the table above

Selection procedure

	MODALITY	PUBLICATION OF THE RESULTS ON THE UNIVERSITY'S WEBSITE
Evaluation of qualifications and research project	Candidates' presence not required	From July 26th 2024
Oral examination	Date: From August 28th 2024, 9.30 am Luogo: In presenza, Dipartimento di Agricoltura, Alimentazione e Ambiente (D3A) or online via Microsoft Teams Platform	From September 5 2024

* * If the number of admitted candidates does not allow the oral test to be held on a single day, a calendar will be published on the website together with the results of the evaluation of qualifications and the research project.

* ** The results of the admission tests will be available on the website. Publication on the site has the value of notification. No communication will be sent to candidates via email.

Documents to be annexed to the application

Only documents drawn up in **Italian, English** or **French** will be considered valid and evaluated by the Commission. For identity documents and qualifications issued in a different language, a sworn and certified translation into Italian, French or English made by an authorized body or the University that issued the qualification must be attached.

MANDATORY DOCUMENTS TO BE SUBMITTED WITH THE APPLICATION FORM	
Identity document	Scan of a valid identity document in accordance with the provisions of Art. 35 c.2 D.P.R. 28 December 2000 n. 445 and subsequent amendments: "The passport, the driving license, the boat license, the pension booklet, the license to operate heating systems, the firearms license, the identification cards, provided that they have a photograph and a stamp or other equivalent signature, are equivalent to the identity card, issued by a state administration."
Curriculum Vitae	No specific format is required. The CV must be dated and signed (the signature will be valid only if handwritten or digital). Candidates who submit CVs without a signature will be excluded from the selection.
Qualifications	See Call for applications with particular reference to art. 3, paragraph 4



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Progetto di ricerca	<p>Research project</p> <p>a) divided into: state of the art; description of the project; expected results; articulation of the project and implementation times; proposed criteria for the verification of the results achieved; Concise bibliography.</p> <p>b) maximum length of 25,000 characters, including title, spaces, formulas, bibliography</p>
Publications	- List of any scientific publications (indicate DOI number, ISBN/ISSN)
Documents certifying the knowledge of the foreign language, if any	- Any certificate, attesting to the knowledge of a foreign language in the E.U., issued by a legally recognized institution (by way of example but not limited to: TEOFL, IELTS, Cambridge Exol, DELF, DELE, KEG, Goethe Institut, etc.)
Documents certifying computer skills	- Any documents certifying computer skills
Documents relating to further training courses	<ul style="list-style-type: none"> - University Master of I or II level - Specialization and/or Higher Education courses in subjects related to the research fields covered by the PhD Course - Scientific research, of any type (basic, oriented, finalized, translational, applied, etc.) and carried out in any capacity, including holding research grants and participation in research projects; - Additional Master's degree

Selection procedure criteria

The assessment is expressed through the attribution of an overall score, as established by art. 5 of the call for applications, to which reference should be made.

1. **Evaluation of qualifications and research project** : minimum score to be admitted to the oral examination: 40 points, maximum 60 points
2. **Oral examination** – minimum to pass the examination: 40 points, maximum 60 points