



**Doctoral Program in
Sustainable Chemistry
Guide A.Y. 2024 -2025**

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Welcome

Dear PhD Students, welcome to the PhD programme in Sustainable Chemistry! Sustainable Chemistry is a three-year doctoral programme at Ca' Foscari University offered by the Department of Molecular Science and Nanosystems starting from September 2024.

Website of the PhD Program: <https://www.unive.it/web/en/224/home>

Research projects aim at the development of green and sustainable processes.

Major areas of research currently include:

- sensing
- development of sustainable processes and renewable materials
- sustainable organic syntheses
- water purification
- carbon capture and storage
- development of catalytic, photocatalytic and biocatalytic systems
- energy conversion and storage
- waste recycling and valorization

On behalf of the PhD Faculty, I welcome you aboard and wish you the best for your PhD experience!

Claudia Crestini

Coordinator of the PhD Course in Sustainable Chemistry

Faculty Board and Staff



Coordinator

Claudia Crestini

claudia.crestini@unive.it

Teaching Committee



Michele Back

michele.back@unive.it



Marco Bortoluzzi

markos@unive.it



Federica Menegazzo

fmenegaz@unive.it



Alessandro Scarso

alesca@unive.it



Michela Signoretto

miky@unive.it



Robert Carlyle Pullar

robertcarlyle.pullar@unive.it



Patrizia Canton

cantonpa@unive.it



Elisa Moretti

elisam@unive.it



Maurizio Selva

selva@unive.it



Federico Polo

federico.polo@unive.it



Chiara Zanardi

chiara.zanardi@unive.it

External members



Heiko Lange

Università degli studi di Milano
Bicocca



Thomas Maschmeyer

The University of Sydney

Secretariat

Francesca Guidi

e-mail dottorato.chimica@unive.it

Alfa Building, 4th floor – Scientific Campus via Torino, 155 Venezia Mestre 30172

website: <https://www.unive.it/web/en/224/home>

PhD programme in Sustainable Chemistry



The PhD programme in Sustainable Chemistry is a higher education initiative starting from September 2023 at the Department of Molecular Science and Nanosystems (DSMN) that aims at going beyond traditional Chemistry PhD didactic activities by specifically tackling sustainable research strategies in the design and development of new chemical processes, products and materials.

The overall objective of the PhD program is to shape young talents to play a pivotal role in the ideation, design and development of innovative solutions for a sustainable society. The Sustainable Chemistry PhD program consists in a highly innovative multidisciplinary approach fostering the integration of sustainable processes into the various areas of chemistry thus providing solutions to present and medium-term requests of the Chemical Industry, and societal needs.

The programme is taught entirely in English. Students need to have an English language proficiency of at least B2 level.

Regulation of the PhD Program in Sustainable Chemistry

1. **Thesis supervisors** are approved by the Academic Board. The Coordinator is delegated by the Academic Board to direct the PhD student in choosing the Supervisor in cases where the supervisor is not immediately identifiable.



2. The **study plan**, submitted on a special form provided by the secretariat, must be delivered by the end of November of each year for approval by the Steering Committee. The study plan, to be updated annually, **includes the research plan and the plan of training activities**, as indicated below:

a) the scientific research plan must be established in agreement with the supervisor, who will supervise the doctoral student in each phase of the research project. The supervisor has the task of contributing to the definition of the individual training and research plan, monitoring the availability of sufficient funds and



equipment to carry out the research project proposed to the doctoral student, following the entire training course of the PhD student, providing an annual report to the Board of teachers on the activity of the PhD student.

b) The training activity plan must include the attendance of at least 2 didactic activities for doctoral students to be carried out preferably between the first and second year and to be selected from list of the didactic activities offered by SUSCHEM doctorate <https://www.unive.it/web/en/227/programme-and-didactic-activities>.

and the STBNM doctorate <https://www.unive.it/data/en/194/programme-and-didactic-activities>

Didactic activities for doctoral students borrowed from other doctoral programs of the University (e.g. Machine Learning) can be chosen as supernumerary or free choice upon the approval by the Academic Board.

15 hours Didactic activities for PhD students belonging to the Joint doctorate in Chemistry can be chosen as supernumerary.

The study plan may also include didactic activities or teaching modules of Master's Degrees, or didactic activities offered by other Institutions/Universities, provided that they include a final exam, upon the approval by the Academic Board.



All PhD didactic activities are offered in videoconference mode and include a mandatory final exam which will be registered in ESSE3 student area.

3. **Seminars, Doctoral Schools, Workshops and active participation in Conferences** (presentation of posters or oral communications) are considered training activities.

PhD students are required to attend at least two **interdisciplinary PhD office didactic activities** <https://www.unive.it/pag/7726/>

PhD students are required to attend at least 20 **seminars** in the three years. The seminars will be held by external experts on topics of interest to the PhD Program and approved by the Steering Committee. The seminars are part of the training activities.

4. Doctoral students can carry out, subject to authorization from the Academic Board, **specialist tutoring activities** within the maximum limit of 90 hours in each academic year (<https://www.unive.it/pag/8245/>) and, as an integral part of training project, supplementary teaching activity or teaching assistance within the limit of 40 hours for each academic year (<https://www.unive.it/pag/8256/>) subject to authorization from the Academic Board;

5. **Stages:** PhD students are strongly encouraged to carry out part of the scientific program at other Italian or foreign institutions, preferably in the 2nd and 3rd year. The minimum recommended period for an internship abroad is 3 months.

6. At the end of each year, usually in the month of July, an assessment of the research and training activities “**end-of-year exams**” is scheduled, consisting of a



presentation in seminar form of the scientific activity that the PhD students hold in the presence of the Academic Board. PhD students are also required to submit a written report on their scientific, seminar and training activities, drawn up in accordance with the model provided, and a personal file showing the training activities carried out in the reference year. These documents remain on record in the secretariat. Admission to the following year and maintenance of the scholarship is subject to the approval of the Steering Committee (<https://www.unive.it/pag/8256/>).

7. At the end of the three-year PhD period, PhD students must have at least 1 **publication** with their first name, even in press. The Steering Committee will evaluate any special cases.

8. Doctoral students elect **two representatives** who take part in the sessions of the Academic Board to deal only with teaching and organizational problems.

Check list for end-of-year exams

- Three-page-long written report on scientific activity
- Annual Seminar: presentation and discussion of the scientific results to the Teaching Committee
- Training activities list
- Any other activity.

If the evaluation positive, doctoral students will be admitted into the subsequent year.

Check list for admission to Final Exam Procedure

- Progress in Research (report on the research program developed in the 3 years)
- Attendance to at least two didactic activities (list)
- Attendance to 2 interdisciplinary didactic activities organized by the PhD Office <https://www.unive.it/pag/7726/> (list)
- Attendance of at least 5 seminars.(list)
- Research period abroad months (if any)
- Research period in other Italian institutions (if any)
- Workshop, Schools, Conferences, poster/oral presentation, public engagement activities (list)
- Papers
- Prizes

Evaluation grid for pre-defense and final exam

Evaluation of the Thesis	Excellent	Good	Satisfactory	Limited
How original and timely is the research question of the thesis?				
How rigorous is the research methodology applied for the PhD thesis project?				
How interesting and well developed are the results and/or discussion sections of the thesis?				
How is the overall quality of the contribution in terms of existing research, academic relevance and debate?				
presentation				
Oral presentation				
Competence in replying questions				
Overall Evaluation				

Personal UniVe webpage and arCa' publication archive



After enrolment You will receive a studentnumber@unive.it email account upon enrolment which will be the only email address used by the Central Administration to communicate on an official basis with you. You will apply for a name.surname@unive.it email. To do so please read here: <http://www.unive.it/pag/11398>. Please communicate this address to the PhD Secretariat as soon as you get it. Once you have this email address, you will be able to feed your personal webpage with your CV, publications and photo. You will register to **ORCID (Open Researcher and Contributor ID)** and communicate your identifier to the PhD Secretariat. You will regularly update your publications in **the ARCA catalogue**.

Facilities

E-MAIL ACCOUNT

Once enrolled as a PhD student, you are part of Ca' Foscari University Venice, you will receive a studentnumber@unive.it email account: this is the only email address used by the Central Administration to communicate on an official basis with you;

After obtaining your Italian Fiscal Code, you are encouraged to apply for a name.surname@unive.it email. Please read here: <https://www.unive.it/pag/11398> (ITA), <https://www.unive.it/pag/36650> (ENG).

Once you have your name.surname@unive.it email address, you will be able to feed your personal webpage with your CV, publications and photo. Every PhD student is required to register to ORCID (Open Researcher and Contributor ID) and regularly update his/her publications in the ARCA catalogue

ITA <https://www.unive.it/pag/10391/>

ENG <https://www.unive.it/pag/40418/>

PHD ROOMS AT DEPARTMENT OF MOLECULAR SCIENCE AND NANOSYSTEMS

PhD students have access to two rooms which are located on the 2nd and the 3rd floor of BETA Building, on the ground and 1st floor of ETA Building , on the 6th floor of ALFA Building, and on the 2nd floor of Epsilon Building. PhD students are responsible for the good care of these premises. The last student who leaves the PhD room must check that all windows are closed, PCs and lights turned out. The rooms will be showed during the welcome day, on your very first day in DSMN.

If you need to carry out group work or you wish to discuss with your colleagues, you can use the lecture rooms “acquario” in ALFA Building, please ask to the Secretariat.

ICT INFRASTRUCTURE, PCs AND WI-FI

See the following website for more information:

<https://www.unive.it/pag/29847> (ITA)

<https://www.unive.it/pag/39159> (ENG)

LIBRARIES

Campus Scientific Library – BAS

ITA <https://www.unive.it/pag/4757>

ENG <https://www.unive.it/pag/40450/> is situated in ALFA Building.

You have access using your “multiservizi-card”/student card. If you need to access the library but you still do not have the card, you can ask the front desk personnel of the library for a temporary access card showing an identity document.



ONLINE RESOURCES

Ca' Foscari students have access to the materials of the Ca' Foscari Digital Library, Electronic Journals Catalogue Data sets, Thesis archives, other catalogues and journals online. For more information please visit cerCa':

ITA: <https://www.unive.it/pag/10527/>

ENG: https://uve-iaa-primo.hosted.exlibrisgroup.com/primo-explore/search?sortby=rank&vid=unive_new_ui&lang=en_US

USEFUL INFORMATION

CA' FOSCARI WEBSITE (in english) <http://www.unive.it/pag/13526/>

INTERNATIONAL WELCOME DESK – FOR FOREIGN STUDENTS

<http://www.unive.it/welcome>

PHD OFFICE webpages

- ITA <https://www.unive.it/pag/252/>
- ENG <http://www.unive.it/pag/25684/>

POSTGRADUATE ADMINISTRATIVE OFFICE

- ITA <https://www.unive.it/pag/10588/>
- ENG <https://www.unive.it/pag/20069/>

HOUSING OFFICE AND CANTEENS <http://www.unive.it/pag/19768>

MULTISERVICE CARD <http://www.unive.it/pag/16409>

STAY, INSURANCE, TRASPORT <http://www.unive.it/pag/12525/>

NOTES
