



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA

VIRTUAL FAIR 2024

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**MASTER'S**

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# GREENING ENERGY MARKET AND FINANCE

Department of Statistical Sciences

# Who we are



**Silvia Romagnoli**

PROGRAM DIRECTOR

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PROGRAM COORDINATOR

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**TUTOR**

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## A new shape of Finance



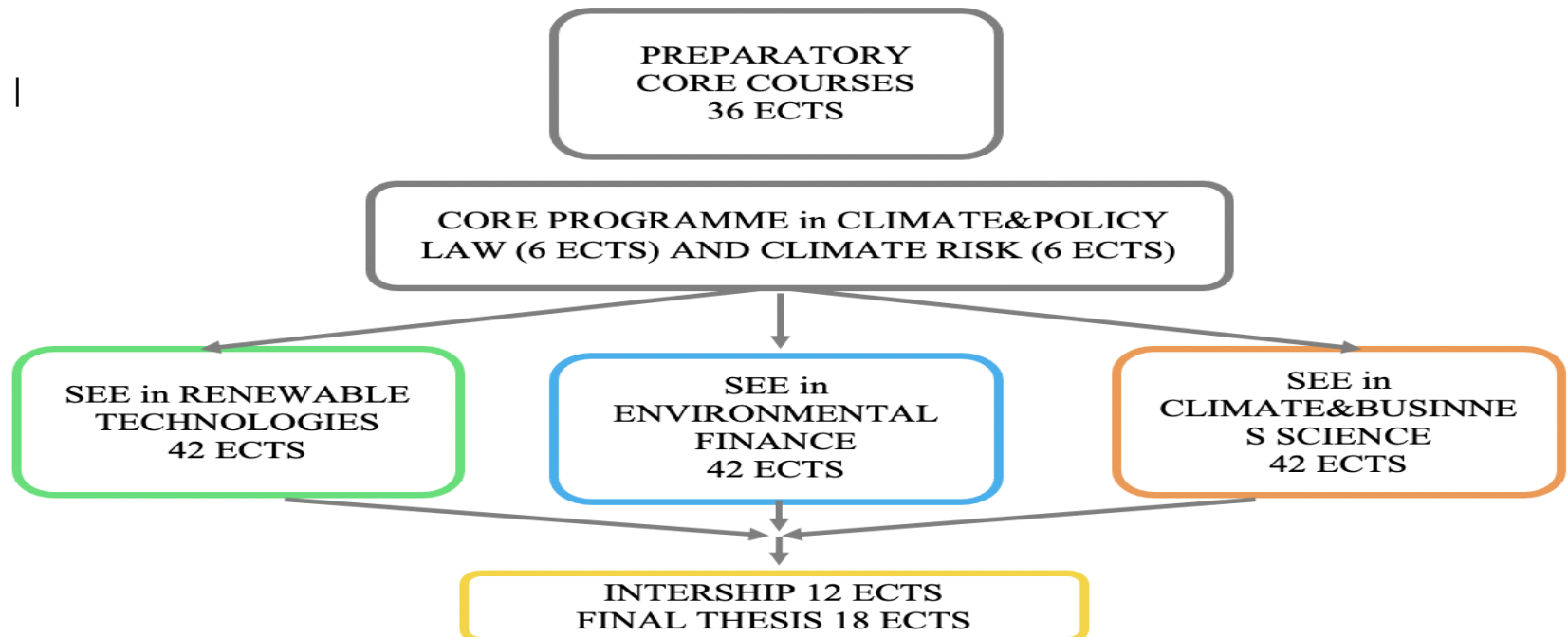
*GrEnFin proposes a new role of finance as a facilitator of the transition process.  
Finance is recognized to be pivotal for the sustainable transition.  
We ethically reshape its goal into a societal service for the common good.*

The Master proposes an innovative and interdisciplinary educational path targeted to the

***Sustainable Energy Expert***, expected to be the Hero of the Green Economy.

- **INTERDISCIPLINARY PATH:** engineering knowledge, quantitative skills, economic-business competences
- **INNOVATIONS:** Innovations in methodologies and contents.
- **SYNERGIES WITH THE BUSINESS WORLD:** GrEnFin Master is our answer to the stakeholders' needs. The structures comes from a co-designed project agreed with academy and business world.

# Overview of the GrEnFin Master Structure: an Interdisciplinary Path



# First semester: Preparatory Core Courses (36 ECTS)

## RISK MODELLING AND PROBABILITY (12 ECTS):

- Introduction to probability and the mathematics of risk (6 ECTS)
- Risk modelling and evaluation (6 ECTS)

## CLIMATE-RELATED RISK AND COMMODITY MARKET (12 ECTS):

- Climate and transition risks: uncertainties, complexity, and implications for economic and financial dynamics (6 ECTS)
- Commodities and Energy Markets: interactions with climate policy (6 ECTS)

## FINANCIAL MARKET & CLIMATE CHANGE: PRICING/HEDGING AND ASSET MANAGEMENT (12 ECTS):

- Mathematical Finance, Asset Pricing, Derivatives (6 ECTS)
- Asset Management and Transition Risk (6 ECTS)

Between the 2<sup>nd</sup> AND 3<sup>rd</sup> SEMESTER: Core courses (12 ECTS)  
4<sup>th</sup> SEMESTER : Internship (12 ECTS) and Final Thesis (18 ECTS)

INTERNATIONAL LAW AND SUSTAINABILITY (6 ECTS)  
CREDIT AND WEATHER DERIVATIVES (6 ECTS)

INTERNSHIP (12 ECTS)

FINAL THESIS (18 ECTS)

# The Sustainable Energy Expert: Three Curricula

## ***SEE in Renewable Technologies***

Here we have focus on the **sustainable engineering technologies**. Students will increase their knowledge in **Renewable Energy and Climate** and also gain **financial and economics tools** that can help to have a 360 degrees vision about the energy market and the implication of the transition process in term of increased risk.

## ***SEE in Environmental Finance***

Students will increase their knowledge in **risk and financial management associate to climate**. The competences in **financial engineering** allow to design contingent claims ad hoc able to provide useful hedging strategies.

## ***SEE in Climate&Businness Science***

Students will gain a deep **economic perspective of the energy transition process** and will be able to identify the best way to manage it. The main subject will give the student deeper understanding of **Climate science, prediction and mitigation strategies**.

## Different specializations



### RENEWABLE TECHNOLOGIES TRACK

#### Related Courses (30 ECTS)

- Climate System and Climate Change (6 ECTS)
- Smart Grids for Smart Cities (6 ECTS)
- Solar&Wind Energy and Storage Systems (6 ECTS)
- Python coding and data science (6 ECTS)
- Machine Learning and AI (6 ECTS)
- Summer/Winter school (6 ECTS)
- Summer/Winter Training (3 ECTS)
- Intensive Programme (6 ECTS)

#### Electives (12 ECTS)

- Hydraulic and Bioenergy (6 ECTS)
- Corporate Finance (6 ECTS)
- Financial Risk Management (6 ECTS)
- Statistical Methods for asset management (6 ECTS)
- Economics of financial market and sustainable perspectives (6 ECTS)
- Advanced Mathematical Finance (6 ECTS)
- Advanced methods for risk management (6 ECTS)
- Computational Finance (6 ECTS)

### ENVIRONMENTAL FINANCE TRACK

#### Related Courses(30 ECTS)

- Climate System and Climate Change (6 ECTS)
- Smart Grids for Smart Cities (6 ECTS)
- Python coding and data science (6 ECTS)
- Advanced Mathematical Finance (6 ECTS)
- Summer/Winter school (6 ECTS)
- Summer/Winter Training (3 ECTS)
- Intensive Programme (6 ECTS)

#### Electives (12 ECTS)

- Advanced methods for risk management (6 ECTS)
- Computational Finance (6 ECTS)
- Statistical Methods for asset management (6 ECTS)
- Economics of financial market and sustainable perspectives (6 ECTS)
- Econometrics of financial markets (6 ECTS)
- Machine Learning and AI (6 ECTS)

### CLIMATE&BUSINNES TRACK

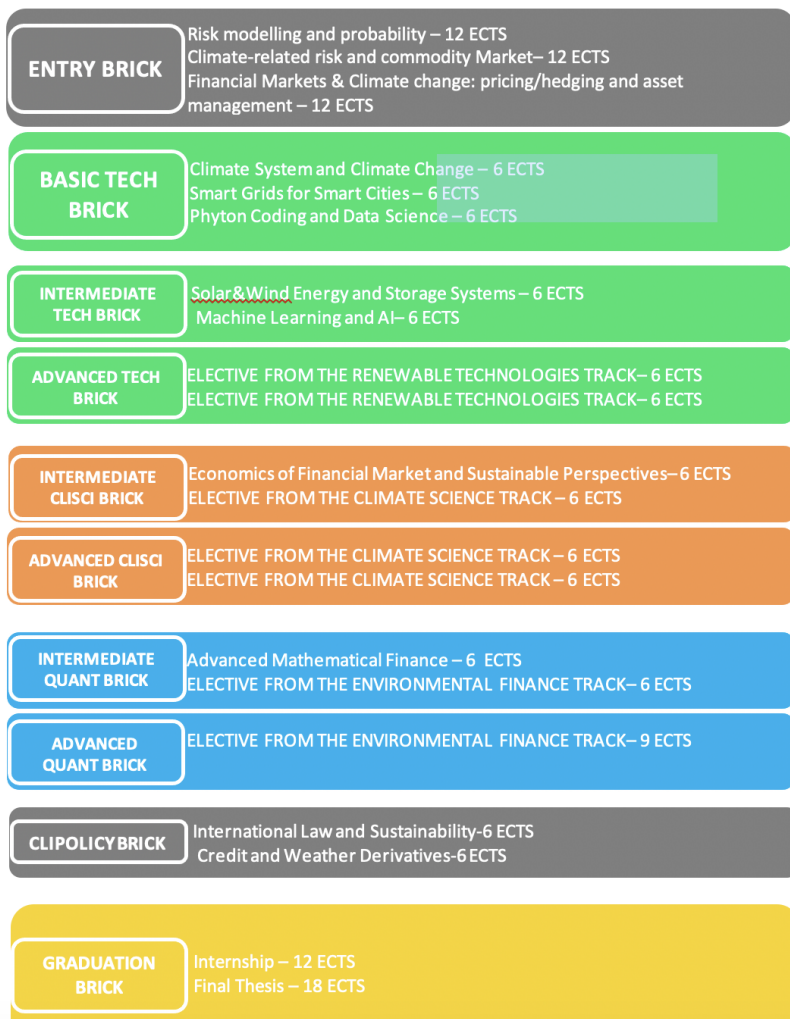
#### Related courses(30 ECTS)

- Climate System and Climate Change (6 ECTS)
- Economics of financial market and sustainable perspectives (6 ECTS)
- Smart Grids for Smart Cities (6 ECTS)
- Python coding and data science (6 ECTS)
- Summer/Winter school (6 ECTS)
- Summer/Winter Training (3 ECTS)
- Intensive Programme (6 ECTS)

#### Electives (12 ECTS)

- Corporate Finance (6 ECTS)
- Financial Risk Management (6 ECTS)
- Statistical Methods for asset management (6 ECTS)
- Statistics of financial markets (6 ECTS)
- Advanced methods for risk management (6 ECTS)





## A brick composition of the educational path

The GrEnFin educational Path can be tailored on the interests of students:

- ENTRY BRICK
- BASIC TECH BRICK
- INTERMEDIATE/ADVANCED BRICKS (CURRICULA)
- CLIPOLICY BRICK
- GRADUATION BRICK

A number of electives are offered inside every curriculum.

GrEnFin offers a **flexible educational path** to be tailored by students

## A strong connection with the industrial/business world



- The GrEnFIn master is our answer to the stakeholders needs: from the GrEnFIn project survey to a worldwide needs analysis and finally to the definition of the learning outcomes and the draft of the educational path
- L and SMEs are partners of GrEnFIn project: relevant and innovative contribution in term of contents (frontier topics) and methodologies (teamwork based on real cases) during the testing and piloting phases
- **Summer/Winter School and Training** based on case studies and team projects
- **Intensive Programme** with IT Lab focused on frontier topics
- 300 hours of **curricular Internship** to practically approach the real problems
- **Double supervision of the final Thesis**: an academic and an industrial supervisor

# GrEnFIIn Master: from an EU Project to an educational International Dimension



- GrEnFIIn Consortium came up with the idea of the International Master as a result of a joint work of academies/enterprises: **international network**
- **Double/Multiple Degree:** LMU and other forthcoming agreements to make the enrich the of abroad experiences
- **Thesis abroad and Overseas** opportunities are offered thanks to GrEnFIIn connections
- **Industrial research** in international scenarios



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA



# ADMINISTRATIVE INFORMATION

## ADMISSION PROCESS - GrEnFin

You will find all information about the admission here:

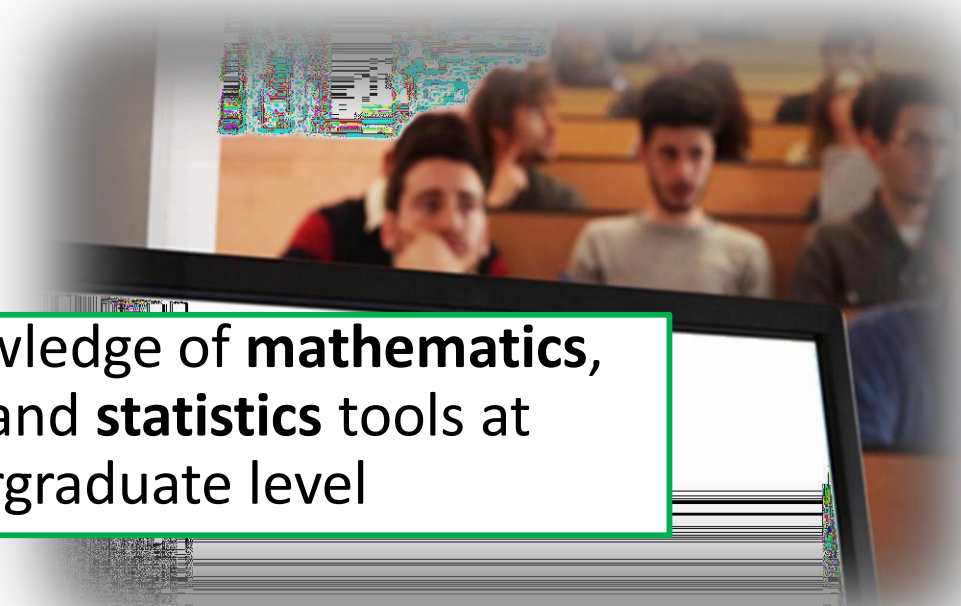
<https://corsi.unibo.it/2cycle/GreeningEnergyMarketFinance/how-to-enrol>

There will be a **compulsory assessment test online**

Deadlines and dates for the a.y. 2024/2025:

	APPLICATIONS PROCEDURE OPEN	APPLICATIONS PROCEDURE CLOSED	ONLINE ASSESSMENT TEST	RESULTS AND FEEDBACK
Intake 1 (open to all candidates)	March 8 <sup>th</sup> 2024	April 4 <sup>th</sup> 2024 h 11:00 a.m. CET	April 9 <sup>th</sup> 2024 h 11:00 a.m. CET	May 6 <sup>th</sup> 2024
Intake 2 (open to all candidates)	April 5 <sup>th</sup> 2024	May 3 <sup>rd</sup> 2024 h 11:00 a.m. CET	May 9 <sup>th</sup> 2024 h 11:00 a.m. CET	May 31 <sup>st</sup> 2024
Intake 3 (open to EU and EU- assimilated candidates)	June 3 <sup>rd</sup> 2024	July 1 <sup>st</sup> 2024 h 11:00 a.m. CET	July 8 <sup>th</sup> 2023 h 11:00 a.m. CET	July 29 <sup>th</sup> 2024

# Admission requirements and evaluation



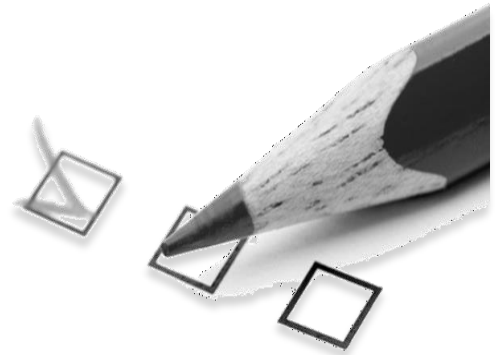
Adequate knowledge of **mathematics**,  
**economics** and **statistics** tools at  
undergraduate level

Admission is conditional on the assessment  
of the personal qualification by the  
***Admission Board***

# GrEnFin online assessment test

- . A thirty-minute test of twenty multiple-choice questions for the assessing of basic knowledge of mathematics, statistics, economics and finance. It will be administered online at <http://prove.unibo.it/>
- It is compulsory, and only applicants who do take it will be considered eligible for the evaluation

# Assessment



☐ Academic merit: **max 50 points**

☐ Presentation letter +  
motivation letter: **max 10  
points**

☐ Curriculum vitae: **max 10  
points**

☐ GrEnFln online  
assessment test: **max 30  
points**

For admission:  
**min. 60  
points**



# How to apply

ges/default.aspx

Directories ▾ Online Services ▾

Intranet My-email ▾

margherita.derogati2@unibo.it Logout Control panel

Site Actions ▾

Contacts

News [View all](#)

[Intensive Programme: Finance and Energy Market](#)  
Published on 27 February 2018

[2018 Society of Actuaries Student Research Case Study Challenge](#)  
Published on 19 February 2018

[Unibo Actions 1&2: study grants and tuition fee waivers for international students](#)  
Published on 25 January 2018

Events [View all](#)

from 15 January to 1 March 2018  
[QF Open day 2018](#)

from 16 November 2017 to 1 June 2018  
[JOBS: seminars](#)

[facebook](#) [international](#)

**We are on Facebook!**  
Like us and know all about the International Programmes at the School of Economics, Management and Statistics of Bologna University.

**Students**

- AlmaEnglish
- AlmaEsami
- AlmaRM
- Certificates
- Document and library services
- Internships
- Merchandising (unibostore)
- Studenti Online
- Study plans
- Teaching materials
- Teaching Staff-Student Distribution lists
- Test

**Staff**

- AlmaEsami
- AlmaRegistri
- AlmaRM
- Cedolini web
- Document and library services
- Incarichi extraistituzionali
- Internships
- IRIS - Institutional research archive
- NormAteneo
- OrganiWeb
- Personal Website
- Platform for printed materials
- Presenze web
- Teaching materials
- Teaching Staff-Student Distribution lists
- Tesi Online
- Titulus
- Unibolmmagine
- Web U-Gov - Projects Accounting Reporting

[Close](#)

Find here the call

[Financial aid and accommodation](#)  
If you wish to enrol in QF, find out about the available opportunities for you!

[QF Video presentation](#)  
Watch the video about the International programs of the School of Economics, Management and Statistics!

[Play and share the double interview of our students!](#)  
Listen to what students think about us

[QF Alumni](#)

**Prospective students**  
Knowing the degree programme: characteristics, requirements and information on enrolment.

**Current students**  
Basic information to study and to face each step University career.

**Graduating students**  
Towards and beyond the degree: all the information you need to know on final examination, continuation of study and world of work.

**Short description of the programme**


ALMA MATER STUDIORUM UNIVERSITA DI BOLOGNA

SECO QU

Version: Published (152.0) Status: Published

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Home Presentation Learning activities



# Admission procedure

Enter Studenti  
Online

StudentiOnline


and select *Entrance  
test procedure*


## Help desk Studenti Online

E-mail:  
[E-mail servizio di supporto informatico](mailto:E-mail servizio di supporto informatico)  
Telefono:  
+39 051 20 99 882  
Orari:  
Lunedì a Venerdì 9.30-13.00; 14.00-18.00


  
**Prove di ammissione -  
AlmaWelcome!**  
Iscriviti a una prova di  
ammissione


  
**Immatricolazioni -  
AlmaWelcome!**  
Iscriviti a un Corso di  
Studi


  
**Esami - AlmaEsami**  
Iscriviti agli esami e alle  
prove intermedie


  
**Libretto online**  
Controlla la tua carriera  
universitaria

  
**Piani di studio**  
Compila il tuo piano di  
studio

  
**Laurea**  
Presenta la domanda di  
laurea

  
**Passaggio di corso**  
Richiedi il passaggio a un  
altro Corso di Studi

  
**Trasferimento**  
Richiedi il trasferimento  
verso un altro Ateneo

  
**Rinuncia agli studi**  
Compila la domanda di  
rinuncia agli studi

## Fittizio Studente

e richieste in corso **14**

	Id	Tipo	Descrizione	Data inizio
Richiesta inserita	12193	Prova d'ammissione	Adattamento posturale: metodologie per la salute	03/07/2012 <a href="#">Vedi dettaglio »</a>
Richiesta inserita	127			03/07/2012 <a href="#">Vedi dettaglio »</a>
Richiesta inserita	1		ulum in 'health economics & management' (hem)	06/07/2012 <a href="#">Vedi dettaglio »</a>
Richiesta inserita	1		itarie	20/07/2012 <a href="#">Vedi dettaglio »</a>
Richiesta inserita	1			25/07/2012 <a href="#">Vedi dettaglio »</a>
Richiesta inserita	1		urgia	25/07/2012 <a href="#">Vedi dettaglio »</a>
Richiesta inserita	2		resa	28/07/2012 <a href="#">Vedi dettaglio »</a>
Richiesta inserita	2		ali a ciclo unico facoltà di farmacia	01/08/2012 <a href="#">Vedi dettaglio »</a>
Richiesta inserita	2			07/08/2012 <a href="#">Vedi dettaglio »</a>
Richiesta inserita	32			13/08/2012 <a href="#">Vedi dettaglio »</a>
Graduatorie pubblicate	4026			22/08/2012 <a href="#">Vedi dettaglio »</a>
Graduatorie pubblicate	51029	Prova d'ammissione	Scienze della formazione primaria	03/09/2012 <a href="#">Vedi dettaglio »</a>
Da completare	106364	Prova d'ammissione	Economics - Imec	12/02/2013 <a href="#">Vedi dettaglio »</a>
Richiesta inserita	10927	Prova d'ammissione	Innovation and organization of culture and the arts - gioca (scadenza 30/04/2013)	22/02/2013 <a href="#">Vedi dettaglio »</a>

## Required documents

- ☐ ID
- ☐ Transcript
- ☐ Curriculum Vitae
- ☐ English proficiency certificate

## Optional documents

- ☐ Reference letters from academics and scholars
- ☐ Motivation letter



## English knowledge

**The minimum level of proficiency in English to be considered for admission is B2.**

**It can be consider fulfilled with one of the following cases:**

- Certification by the Centro Linguistico di Ateneo (CLA)
- English Language certification among the following: TOEFL, ISE, IELTS, CAMBRIDGE EXAM SUITE.
- Other international recognised English Language certification that the Admission Board might deem appropriate
- B2 level English exam in their Bachelor's study plan

- Certification of working/studying experience in English-speaking countries (internship, exchange programme, winter/summer school, etc.)
- Certification of working/studying experience in non-English speaking countries but in which English was required and used as working language (internship, exchange programme, etc.).
- OLS Test in English obtaining the B2 level
- Holding a degree completely taught in English
- English native speaker

# Classes

## 2 Semesters, 4 Terms

### *1° Semester*

**1 Term** Sept. - Oct.

**2 Term** Nov. - Dec.

### *2° Semester*

**3 Term** Feb. – March

**4 Term** Apr. – June

- **Laboratory (crash course)**  
in reassessment of real  
analysis and advanced  
differential calculus  
September

# Exams

- ✓ **Written** or oral test
- ✓ **ONLY three** possibilities per year



Sep	Oct	E	Nov	Dec	E	Feb	March	E	April	May	E
TERM 1		x a m s	TERM 2		x a m s	TERM 3		x a m s	TERM 4		x a m s

# Enrolment and deadlines

Students can enroll to GrEnFIn

**From 25 July 2024**

**to 29 October 2024**

**(or 21 November 2024, under a payment of a fine  
for delayed payments)**

Students who have not yet completed  
their Bachelor's may also participate in  
the selection process

Deadline to get your bachelor degree:  
**30 December 2024**





# International perspective

## Double Degree Agreements with



University of Munich  
– **Germany**

Université Paris Dauphine  
– **France**



Visit the degree program website: [GrEnFln](#)

