

INSPIRING GLOBAL CHANGE SINCE 1222

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SCHOOL OF SCIENCE

# ASTROPHYSICS AND COSMOLOGY

The Master's degree aims at providing students with a comprehensive, up-to-date view of the main fields of modern Astrophysics, including astronomical detectors and techniques, black holes and neutron stars, cosmology, gravitational physics, planets, stars and galaxies. Particular emphasis is placed on a solid background in Physics and on the growing ties among Astrophysics and different branches of Physics in the coming era of multi-messenger observations.



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

# ASTROPHYSICS AND COSMOLOGY

**LEVEL** Master

**SCHOOL** Science

**DEPARTMENT** Physics and  
Astronomy

**DURATION** 2 years (120 ECTS)

**START DATE** October

**LOCATION** Padua, Italy

**PROGRAMME COORDINATOR**  
Paola Marigo

## WEB

[www.unipd.it/en/astrophysics-cosmology](http://www.unipd.it/en/astrophysics-cosmology)

**APPLY.UNIPD.IT**



**71<sup>st</sup>** 2023  
Physics and Astronomy



## ENTRY REQUIREMENTS

- Bachelor's degree (or equivalent), with proven skills in Physics, Mathematics, Chemistry, Basic Computer Sciences and programming
- English language: B2 level (CEFR) or equivalent

## PROGRAMME STRUCTURE

Common Path: Mathematical and Numerical Methods; General Relativity; Astrophysics Laboratory.

Path 1 - Theory and Modelling: Theoretical Cosmology; Radiative Processes in Astrophysics; Theoretical Physics; Compact Object Astrophysics.

Path 2 - Observations, Experiments and Interpretation: Stellar Astrophysics; Astrophysics of Galaxies; Observational Cosmology; Astrophysics Laboratory 2.

## TUITION FEES AND SCHOLARSHIPS

Annual fees: up to € 2,700 (3 instalments)

Scholarships and fee-waivers for international students available: [www.unipd.it/en/funding-and-fees](http://www.unipd.it/en/funding-and-fees)

## CAREER OPPORTUNITIES

Graduates work as coordinators or members of research groups in public or private research institutions, or as professionals in industries with a technological profile. They can also be employed in sectors that require skills in modelling, testing, and interpreting large and complex data sets, such as consulting companies, research centres and public administration.