

INSPIRING GLOBAL CHANGE SINCE 1222

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
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
Enrico Maria Corsini

WEB

www.unipd.it/en/astrophysics-cosmology

APPLY.UNIPD.IT



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 € 2,900 (3 instalments)

Scholarships and fee-waivers for international students available: 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.

77th 2025
Physics and Astronomy



BY SUBJECT