MSc in Physics
Master of Science in Physics

Through its **multidisciplinary approach**, the MSc in Physics provides students a solid grounding in all aspects of **Modern Physics**, both theoretical and experimental, along with an excellent grasp of the scientific method with a view to the cutting-edge developments of scientific research and technology.

Students will be also able to employ their knowledge and skills for the planning of sophisticated **measuring instruments** and for the modeling of **complex systems**.
Programme overview

**Workload**
The total workload for each student is 120 ECTS (European Credit Transfer System).

**Intake**
September each year

**Duration**
2 years full-time

**Language**
English

**Degree awarded**
Master of Science - “Laurea Magistrale” - in Physics

**Fees and funding**
- EU: 340€ - 3.400€ (based on income/merit)
- Non-EU: 1.000€ - 4.500€ (based on merit)
- Income/merit based scholarships and tuition waivers available
Admission

Application deadlines (check online for updates)
- February for non-EU citizens living outside Italy
- From June to November: rolling admission for EU citizens and non-EU citizens regularly living in Italy

How to apply
- Access the online application form
- Upload the required documents
- Submit your application online by the deadline
- Check online for more information and updates: www.unitn.it/masterphysics

Selection criteria
- Assessment of previous studies and their coherence with the programme
- Academic curriculum
- English language proficiency (if higher than B2)
- Statement of purpose
- Possible interview

Requirements
- Bachelor degree (or equivalent) in Physics or related fields
- Strong background in Physics and Maths
- English at B2 level of the Common European Framework of Reference for Languages
Specific curricula are provided by the research groups in the Department of Physics at the University of Trento:

- Condensed Matter and Quantum Gases
- Theory of Fundamental Interactions and Cosmology
- Theoretical and Computational Nuclear Physics and Related Areas
- Statistical and Biological Physics
- Biological and Medical Physics
- Experiment Design and Implementation
- Experiments on Fundamental Interactions and Cosmology
- Nanophotonics
- Physics and Chemistry for Energy and the Environment
- Physics of Complex Systems
- Physical Science Communication and Teaching Methods

In the study programme students can attend 4 additional courses in a specific scientific area. Furthermore, students gain 12 ECTS in free-choice activities, 3 ECTS in English language knowledge, and 39 ECTS in writing and defending their thesis.
Beside the several international mobility opportunities active on this master’s degree, enrolled students can apply for a dual degree programme with Eberhard-Karls-Universität, Tübingen (Germany).

The Joint programme in Physics (UniTrento - SISSA) is offered jointly by the University of Trento (UniTrento) with the International School for Advanced Studies (SISSA) in Trieste, combining the courses from Master’s degree programme in Physics at the University of Trento with advanced courses offered by SISSA. The Joint programme in Physics (UniTrento - SISSA) is a two-year full-time programme taught in English and is placed to excellently train and develop the careers of the next generation of physicist. Students study during the first academic year at the University of Trento, while, during the second academic year, students attend the first semester at SISSA. The final thesis can be written in either SISSA or UniTrento, according to the type and quality of the research project and the availability of a supervisor.
Graduates will be able to perform with wide autonomy, taking up responsibility on projects and structures in the fields of research and scientific and technological innovation. They will be able to use their knowledge, according to their specific curriculum, for the planning of sophisticated instruments of measure or for the modelling of complex systems in various fields of sciences as well as in less scientific fields.

The Physics Department has excellent connections with industries: students can participate in the yearly competition “Industrial Problem Solving with Physics”, meant to find solutions to practical industrial problems that need to be fixed by private companies and graduates can benefit from PhD fellowships in Physics sponsored by private companies.
CONTACT DETAILS
International Mobility Office
Science and Technology Area
Via Sommarive, 5 - 38123 Trento, Italy
tel. +39 0461 283976
master-st@unitn.it

www.unitn.it/masterphysics