

NOTICE FOR NEW STUDENTS OF THE MASTER'S DEGREES in PHYSICS and in ASTRONOMY AND ASTROPHYSICS

Teaching activity will start on **WEDNESDAY 22nd SEPTEMBER**.

For the whole of the first semester, teaching will still be carried out in "mixed" mode with a shifting rule that will be communicated to you shortly. We suggest that you keep an eye on the dedicated page of the University, where you will also find instructions on how to register and book classroom seats:

<https://www.uniroma1.it/en/notizia/covid-19-phase-3-person-and-online-classes-exams-and-graduation-sessions>

At the end of the first week of classes, on **Friday 24th September at 15:00** there will be a **meeting to present the learning paths of our two Master's degrees** (and therefore classes will be suspended during that time). This meeting too will take place in mixed mode. It will be possible to attend in person in the **Amaldi classroom** or remotely by connecting to the Meet address of the classroom.

The timetable with the assignment of the classrooms is already available in:

<https://www.phys.uniroma1.it/fisica/en/node/10320>

For this purpose it is necessary to know the code of the building in which the classrooms are located. The Amaldi, Conversi, Majorana, Rasetti and Careri classrooms are located in the Marconi building, code CU013. Classrooms 2,3,4,5,6,7,8 and the Calculus Laboratory are located in the Fermi building, code CU033. Laboratory 2 for the Advanced Calculus Laboratory course of the Master's Degree in Astronomy and Astrophysics is located in the Department of Mathematics, code CU006.

Below you will find some preliminary information on the learning paths, which will be better illustrated during the meeting on the 24th.

The **Master Degree in Astronomy and Astrophysics** has a single curriculum and for the first semester of the first year there are four compulsory subjects:

Astrophysical Processes and Plasmas, General Relativity, Astrophysics Laboratory and Advanced Physics.

In contrast, the **Master Degree in Physics** is structured into four curricula. Curricula presentations from last year can be viewed by logging on to:

https://www.phys.uniroma1.it/fisica/percorsi_formativi_20_21

We report below the mandatory courses of the first semester in each curriculum and some indications for the elective courses, for the sole purpose of directing the attendance of the courses from the first lessons.

a) **Particle and Astroparticle Curriculum.** The required courses are: Introduction to Quantum Field Theory, Condensed Matter Physics, Physics Laboratory I (channel taught by Prof. G. Cavoto). Students may then choose to take an additional course, of a related-integrative nature. In the semester, the only course activated within the

curriculum is the Computing Methods for Physics course (channel taught by Prof. F.Pannarale Greco), which is strongly recommended.

b) **Condensed Matter Physics Curriculum.** The required courses are: Introduction to Quantum Field Theory, Condensed Matter Physics, Physics Laboratory I (channel taught by Prof. Mariani), Computing Methods for Physics (you can choose between the course held by Prof. G. Bachelet and that held by Prof. C. De Michele). Students may then choose to take an additional course. In the semester the following are activated within the curriculum: Statistical Mechanics and Critical Phenomena, Soft and Biological Matter, Nonlinear and Quantum Optics, Computational Biophysics.

c) **Biosystems Curriculum.** The required courses are: Condensed Matter Physics, Soft and Biological Matter and Physics Laboratory I (channel taught by Prof. M. Ortolani). Students may then choose to take two further courses. In the semester the following are activated within the curriculum: Biochemistry, Statistical Mechanics and Critical Phenomena, Nonlinear and Quantum Optics, Computational Biophysics, Computing Methods for Physics (channel taught by Prof. C. De Michele).

d) **General Theoretical Curriculum.** The required courses are: Introduction to Quantum Field Theory, Condensed Matter Physics, Physics Laboratory I (a channel of the student's choice). Students may then choose to take two further courses. In the semester the following are activated within the curriculum: Statistical Mechanics and Critical Phenomena, General Relativity, Computing Methods for Physics (a channel of the student's choice), Nonlinear and Quantum Optics.

Division into channels: The courses Introduction to Quantum Field Theory and Condensed Matter Physics, which are common to all subjects, are divided into channels. The division is made using the initial of the surname (A-J, K-Z).