

MASTER OF SCIENCE IN PHYSICS

(120 credits)

Master Thesis (30 credits, compulsory)

Specialised Physics Courses (50 credits)

A student chooses one of the four specialised topics, and takes all courses listed under that topic. Further specialised courses are chosen among the other three specialisations, at least to the tune of 6 credits. The complement towards 50 credits may be taken from all four specialisations. Upon request by the student who wishes to specialise more thoroughly, they may be taken from the Dutch language physics programme's specialised courses as well.

1. Physics at the Femtometer Scale: Nuclear Physics

2. Solid State Physics at the Nanometer Scale

3. Theoretical Physics

4. Soft Matter Physics

Advanced Physics Courses (0 - 30 credits)

The total amount of credits to be taken from this group varies from 0 to 30 credits. (At least one course at this level must have been taken before entering the master programme.)

For a student with an almost complete background in physics courses at this level, this part of the programme will reduce to nought. Students with a minimal background in physics at this level may obtain permission to start the masters programme, but then the total in this group may run up to 30 credits. The programme committee decides, on the basis of information (academic record, course summaries) provided by the student on entering the programme.

The Advanced Physics Courses are taken from the Dutch language programme Bachelor in de Fysica. They can be taken as reading courses, with English language studying materials chosen by the staff, the optional use of English during lectures and tutorials, and an exam. In English. In principle, they are completed during the first year of the masters curriculum, so that students attain the intended level for each of the corresponding specialized courses in the different subfields of physics.

The selection of courses to complement the prior knowledge of an individual student is made by the programme committee as an integral part of the admission procedure, on the basis of the relevant information (academic record, course descriptions, ...) provided by the applicant. Credit can be given for students whose previous study of physics has already advanced beyond this level.

Supplementary Courses (10 - 40 credits)

The size of this package (10-40 credits) is complementary to the size of the Advanced Physics Courses package (0-30 credits) that is agreed at registration.

G0U12A "Historical and Social Aspects of Physics" is obligatory for all students.

The Dutch language course is obligatory for students with no knowledge of Dutch.

Initial choices (first year) are submitted for approval to the programme committee at the start of the studies, and for the second year to the thesis promotor as .