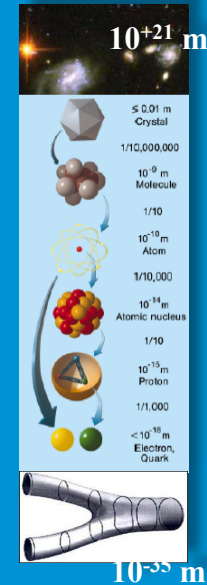




Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG

PHYSICS (M.Sc.)



We are your contact for concerns and questions related to your studies.

- Student counseling during the current studies
- Degree program coordination
- Course planning & management (exams incl.)
- Registration for research phase and master thesis
- office for examinations
- Recognition of study & exam achievements
(Board of examiners)

Jungiusstraße 9, 20355 Hamburg
Rm 24 - 29

Email: studienbuero.physik@uni-hamburg.de
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PHYSICS (M.Sc.)

| | | | | CP | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | |
|----------|----|--------------------------------------|---------------------------------|---|-------|---|---|---|---|---|---|---|---|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|--------|--|--|--|
| Semester | FS | Phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Winter | 1. | S P E C I A L | C O U R S E S | Advanced Master's Courses Physikalische Vertiefung | | | | | | | | | | | | | | | | | | | | | | | | Complementary Subject Freier Wahlbereich | | | | | | 30 CP | | | |
| | | | | 24 CP | 6 CP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Summer | 2. | | | Advanced Master's Courses Physikalische Vertiefung | | | | | | | | | | | | | | | | | | | | | | | | Complementary Subject Freier Wahlbereich | | | | | | 30 CP | | | |
| | | | | 24 CP | 6 CP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Winter | 3. | R E S E A R C H | | Introductory Project Einarbeitungsprojekt | | | | | | | | | | | | Preparatory Project Vorbereitungsprojekt | | | | | | | | | | | | | | | | | | 30 CP | | | |
| | | | | 15 CP | 15 CP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Summer | 4. | | | MASTER THESIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 CP | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 120 CP | | | |

| | | CP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|----|---------------------------------|---------------------------------|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|-------|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| Semester | FS | Phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Winter | 1. | S P E C I A L | C O U R S E S | Advanced Master's Courses Physikalische Vertiefung 24 CP | | | | | | | | | | | | | | | | | | | | | | | | Complementary Subject Freier Wahlbereich 6 CP | | 30 CP | |
| Summer | 2. | | | Advanced Master's Courses Physikalische Vertiefung 24 CP | | | | | | | | | | | | | | | | | | | | | | | | Complementary Subject Freier Wahlbereich 6 CP | | 30 CP | |

Advanced Master's Courses

- Astronomy and Astrophysics (Astronomie und Astrophysik) (PHY-MV-A-E/T..)
- Accelerator and Particle Physics (Beschleuniger- und Elementarteilchenphysik) (PHY-MV-BE-E/T..)
- Biomedical Physics (Biomedizinische Physik) (PHY-MV-BP-E/T..)
- Solid State and Nanostructure Physics (Festkörper- und Nanostrukturphysik) (PHY-MV-FN-E/T..)
- Laser Physics and Photonics (Laserphysik und Photonik) (PHY-MV-LP-E/T..)

In each area there may be courses in Experimental Physics and Theoretical Physics.

| | | CP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|----|---------------------------------|---------------------------------|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|--|--|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | |
| Semester | FS | Phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Winter | 1. | S P E C I A L | C O U R S E S | Advanced Master's Courses Physikalische Vertiefung | | | | | | | | | | | | | | | | | | | | | | | | Complementary Subject Freier Wahlbereich | | | | | | 30 CP |
| | | | | 24 CP | | | | | | | | | | | | | | | | | | | | | | | | 6 CP | | | | | | |
| Summer | 2. | | | Advanced Master's Courses Physikalische Vertiefung | | | | | | | | | | | | | | | | | | | | | | | | Complementary Subject Freier Wahlbereich | | | | | | 30 CP |
| | | | | 24 CP | | | | | | | | | | | | | | | | | | | | | | | | 6 CP | | | | | | |

Specification

- At least one of the five areas of specialisation must be covered by modules comprising at least 16 credit points. A maximum of 32 credit points may be earned from each area.
- Advanced modules in experimental physics and theoretical physics, each comprising at least 8 credit points, must be successfully completed.
 - The 8 CPs do not necessarily have to come from the area of specialisation which is the main focus.

| | | CP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|----|---------------------------------|---------------------------------|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|---|----|------|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| Semester | FS | Phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Winter | 1. | S P E C I A L | C O U R S E S | <i>Advanced Master's Courses Physikalische Vertiefung</i> | | | | | | | | | | | | | | | | | | | | | | | | 24 CP | <i>Complementary Subject</i> <i>Freier Wahlbereich</i> | | 6 CP | 30 CP |
| Summer | 2. | | | <i>Advanced Master's Courses Physikalische Vertiefung</i> | | | | | | | | | | | | | | | | | | | | | | | | 24 CP | <i>Complementary Subject</i> <i>Freier Wahlbereich</i> | | 6 CP | 30 CP |

Specifications for ,complementary subject‘

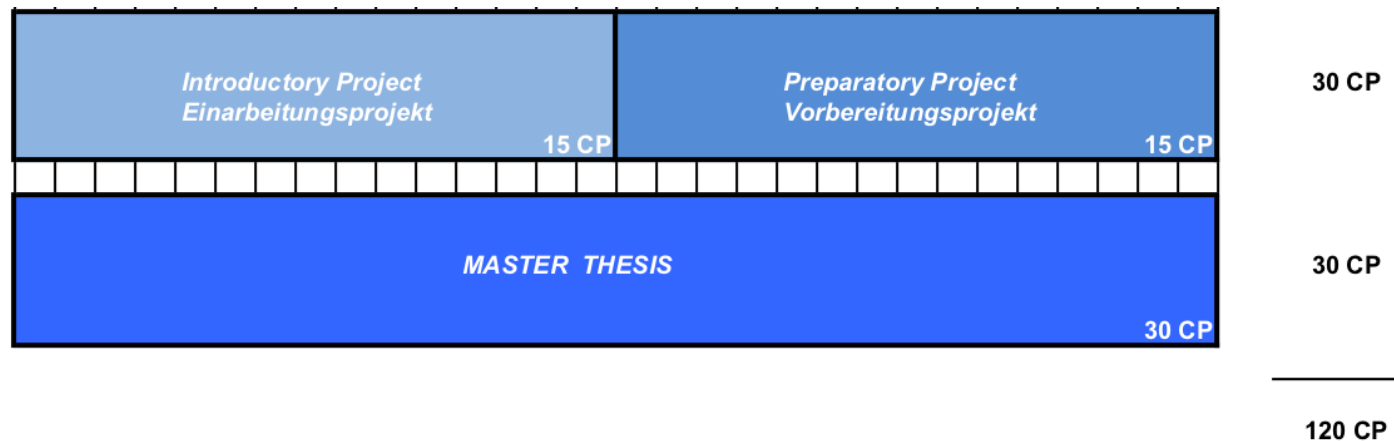
- Modules in this elective area with a total of 12 CP can be chosen freely from the curriculum of the University of Hamburg
- usually extends over two semesters.
- Its individual modules should have a meaningful context.

Attention: Modules as complementary subject must be graded.

Specifications of the ‘Research phase‘

At least 44 credits from the first academic year are required for the admission to the research phase (introductory project).

- Registration in the academic office: starting date, research area, supervising professor (Please use the registration form!)
- Admission to the master thesis (final module) with at least 75 credit points including introductory and preparatory projects. (Please use the registration form!)



Calculation of the overall grade

Overall grade of the master examination is composed of

- the grade of the advanced courses (50%),
 - the grade of the master thesis (final module) (45%)
 - the grade of the complementary subject (5%).
-
- The grade of the area **advanced courses** results from the arithmetic mean of the best-graded specialization modules weighted by credit points in the amount of 48 CP.
 - The grade of the **final module** (master thesis) is calculated to 5/6 from the average grade of the reports and 1/6 from the grade of the colloquium.
 - The grade of the **complementary subject** is calculated as the arithmetic mean of the best-graded modules in this area, weighted by 12 credit points.
 - The examinations from the **introductory project** and the **preparatory project** are **not included in the overall grade** and are not graded.

Examination requirements according to MIN-PO and FSB:

- Per **module examination** a maximum of 4 attempts to pass
- Two examination options within the course semester
- No additional "review" or "additional performance"
- **Grade improvement is excluded.**
- Examination entitlement only with previous examination registration (STiNE).
- **Registration** for exam is **possible up to 3 days before** the date.
- **Medical certificates** must be submitted to the academic office within 10 days of the examination.



Good luck and lots of fun!

**Studienbüro
Physik** 