

# Overview of entry requirements

## Assignment to the laboratory courses

The lab courses in the astrophysical department consist of two basic building blocks: The astronomical & astrophysical laboratory course. The astronomical lab course is addressed to bachelor students, while master students can attend the astrophysical laboratory course. Depending on the respective study path these courses can be assigned to different modules and have slightly different demands.

| Course                          | Moduls            | Credit points (CP) |
|---------------------------------|-------------------|--------------------|
| Astronomical laboratory course  | PHY_532           | 3                  |
| Astrophysical laboratory course | PHY_741b          | 2-3                |
| ::                              | PHY_732 & PHY-751 | 3                  |
| ::                              | PHY_731           | 3-4                |

## Bachelor

### Bachelor of Science

The astronomical lab course („Astronomie im Praktikum“) is part of the elective module **PHY\_532** („Horizonte der Physik“, 6 credit points). The lab course is offered in the winter semester. We recommend that the lab course is combined with the lecture „Distance determinations“.

## Master

The astrophysics lab course is available in different variants, since a different number of CP is assigned depending on the specific regulations and curricula. In the “standard version” the lab course has a scope of 3CP. If 4CP are required, an additional contribution such as a term paper or a further observation has to be carried out. If only 2CP are required, one observation can be skipped.

### Master astrophysics

The Astrophysics lab course is a part of the module **PHY-751** (6CP), which has the following structure:

- Lab course Astrophysics (3CP).
- Astrophysical Seminar for Master of Science Astrophysics (3CP)

The second part of the module is the **Astrophysical Seminar for Master of Science Astrophysics**, in which students give a 30 minute talk on a topic they have chosen and prepared together with a lecturer of the institute. This presentation is the basis for the evaluation of the whole module, while the lab course as such is ungraded. However, passing the lab course is a prerequisite for successfully completing the module. Furthermore, it should be noted that the lab course includes a

seminar which is not identical to the Astrophysical Seminar for Master of Science Astrophysics. It is recommended that an introductory course in astrophysics be taken prior to the lab course.

## Master of Science

### Examination regulations of 2012:

The **astrophysical lab course together with different lectures in astrophysics** constitute the **module PHY\_741b** („Astrophysik“). This module (12 credit points) consist of:

- Stars and stellar evolution (4 CP)
- Galaxies and Cosmology (4 CP)
- Astrophysical lab course (4 CP)

The module is completed by an oral exam. It is recommended to attend additional astrophysical lectures in the module PHY\_731 („Profilierungsfelder“), if astrophysics is chosen as the specialization. The master thesis can then also be written in the astrophysical department. Alternatively, the lab course can also be part of the elective **module PHY\_731** („Profilierungsfelder“) or **PHY\_732** („Physikalische Fächer“). For the **module PHY\_731** the lab course is available in two versions with 3 or 4LP, respectively.

### Examination regulations of 2019:

The **Astrophysics lab course** can be included in the **module PHY\_741b** („Astrophysik“). The module (12 CP) consists of:

- Stars and stellar evolution (6 CP)
- Galaxies and Cosmology (6 CP)

If the lab course is taken, the seminars associated with the above courses can be waived. Since only 2 CP are required for this module, the scope of the astrophysics lab course is reduced compared to the above majors.

## Expired courses

### Physics as a subsidiary subject

Within the scope of some study paths (such as Computational Science), the astronomical lab course was offered as „Astropraktikum für Nebenfachstudierende“ **until the end of the summer semester 2018**. The module number will be different in each of these majors. In any case, to successfully complete these modules, one lecture from the lecture series „Astrophysik I“ needs to be attended in addition to the lab course. We recommend the lecture „Grundkurs Astrophysik“ as a preparation for the lab course.

### Bachelor education

**Examination regulations from 21. October 2004 with changes from 9. February 2006***Bachelor education with physic as the first major*

The astronomical lab course together with the astrophysical lab course can be attended within the context of the module 588/3, if astrophysics is chosen as an elective subject („Wahlfach I“). Both lab courses together give 5 credits. The requirement for this lab course is the lecture *Grundkurs Astrophysik I*, which belongs to the module 585. The second part (*Grundkurs Astrophysik II*) can be attend in parallel to the lab course.

*Bachelor education with physic as the second major*

The astronomical lab course together with the astrophysical lab course can be attended within the context of the module 588/3, if astrophysics is chosen as an elective subject („Wahlfach I“). Both lab courses together give 5 credits. The requirement for this lab course is one of the following two lectures: *Einführung in die Astronomie I* or *Grundkurs Astrophysik I*. The second part of either lecture can be attend in parallel to the lab course.

**Examination regulations from 12. September 2011***Bachelor education with physic as the first major*

The astronomical lab course can be attended together with the lectures *Grundkurs Astrophysik I & II*. The corresponding module is A541, which offers the possibility to earn 10 credits. It is recommended that the first part of the lecture was completed before starting with the lab course, while the second part can be attend in parallel.

Please note: Astrophysics can be chosen in the master education program in the scope of the module A841 (*Vertiefungsgebiet*, 4 credits). A lecture in combination with an exercise needs to be attended for this module. You can select one of the following two options:

- Stars and stellar evolution
- Galaxies and cosmology

*Bachelor education with physic as the second major* Unfortunately, the lab courses are not part of any module. Nevertheless, you can attend the lab courses and get a certificate of participation.

**Master education**

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**Examination regulations from 21. October 2004 with the changes from 9. February 2006***Master education with physic as the first or second major*

Please note: Astrophysics can be chosen as part of the module 195 (*berufsfeldbezogenes Fachmodul II: Moderne Physik*), which is a module designed to offer lectures, practical courses, and seminars that are closely related to the teaching profession. An appropriate set of courses from the astrophysical canon can be included in this module after consultation with the professor that is responsible for this module.

## Examination regulations from 12. September 2011

### *Master education with physic as the first major*

Please note: Astrophysics can be chosen as part of the module A841 (*Vertiefungsgebiet*). A lecture in combination with an exercise needs to be attended for this module. You can select one of the following two options:

- Stars and stellar evolution
- Galaxies and cosmology

### Diploma students

The old diploma program includes a research traineeship (*Forschungspraktikum*), which can be carried out in Astrophysics. The students need to attend to both laboratory courses, i.e. the astronomical and the astrophysical one. These are thought to be accompanied by the elective course (*Wahlpflichtfach*) Astrophysics.

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