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 **astrophysical lab course** is part of the module **PHY-751** (6 credit points). The second part of the module is the **Astrophysical Seminar for Master of Science Astrophysics**, where the students give a 30 min talk on a topic that is chosen and prepared in co-ordination with one of the lecturers from the department. This talk is the basis for the evaluation of the whole module, while it is just required to pass the lab course. Please be aware of the fact that the lab course also includes a seminar, which is not same as the Astrophysical Seminar for Master of Science Astrophysics.

An introductory courses to astrophysics is recommended before attending this lab course.

Master of Science

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 credits)
- Galaxies and cosmology (4 credits)
- Astrophysical lab course (4 credits)

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“).

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

Unfortunately, the lab courses are not part of any module. Nevertheless, you can attend the lab courses and get a certificate of participation.

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.