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Master's degree



Astrophysics

University of Potsdam • Potsdam

Overview

Degree	Master of Science
In cooperation with	Leibniz Institute for Astrophysics (AIP), Deutsches Elektronen-Synchrotron (DESY), Max Planck Institute for Gravitational Physics (AEI)
Teaching language	<ul style="list-style-type: none">English
Languages	100% English
Full-time / part-time	<ul style="list-style-type: none">full-time
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	15 August for the following winter semester 15 February for the following summer semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>The research-oriented Master's degree programme in Astrophysics conveys comprehensive knowledge about the structure and evolution of the universe and its constituents. You will gain a profound understanding of the many complex physical processes that provide the foundation to explain cosmic phenomena. You will also develop a methodological toolkit that enables you to explore and analyse these phenomena. Subject-specific competences in the programme include the discipline's core fields (stars, stellar evolution, galaxies, cosmology) and a variety of more specialised topics (for example: galaxy clusters and large-scale structures, interstellar and intergalactic gas, stellar winds, solar physics, cosmic magnetic fields, planetary science, astroparticle physics, gravitational waves, astronomical instrumentation and observation methods, computer simulations, and others).</p>

Course Details

Course organisation	First year: course work including lectures, seminars, and lab courses Second year: research phase and completion of Master's thesis Available modules (first year): Astrophysics I, Astrophysics II, Higher Physics, Methods of Modern Astrophysics, Topics in Advanced Astrophysics, Supplementary Topics
A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none">• International guest lecturers• Projects with partners in Germany and abroad
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	No tuition is charged for studying at the University of Potsdam (with the exception of a few continuing education courses). There is only an administrative fee of currently 292 EUR. This semester contribution includes the "Deutschland-Semester-Ticket" entitling you to free use of local public transport all over Germany.
Costs of living	The average monthly living expenditures of students at the University of Potsdam are 935 EUR, but this can vary between 600 and 1,100 EUR, largely depending on accommodation. A more detailed list of the average monthly expenditures of our students can be found here .
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	Bachelor's degree in physics or other science field with at least 60 credit points in physics and mathematics, including at least six credit points in the field of astrophysics Prior knowledge in astrophysics must be certified in the Transcript of Records (ToR).
Language requirements	English level C1 according to the Common European Framework of Reference for Languages

Application deadline 15 August for the following winter semester
15 February for the following summer semester

Submit application to Information about the application procedure can be found here:
<https://www.uni-potsdam.de/de/studium/zugang/bewerbung-master>

Services

Possibility of finding part-time employment Job opportunities for students alongside their studies are numerous. Depending on personal and professional skills, students can find jobs in the service sector (e.g. in restaurants, supermarkets, cinemas, museums, theatres, etc.) or work as student research assistants at the University of Potsdam or at one of the many non-university research institutions located in the area. Berlin, the capital city of Germany, is located just around the corner, and students can also find jobs there. Please see [this website](#) for further information.

Accommodation There are several student dormitories in Potsdam. These are administered exclusively by Potsdam's Association for Student Affairs ("Studentenwerk Potsdam"). You can apply for a room in one of these dormitories if you are under the age of 30. If you are a Master's student, you can only apply if the degree at the University of Potsdam is your first Master's programme. Additionally, there are also a few private dormitories in Potsdam, to which these conditions do not apply. However, many students prefer to find an apartment in Potsdam or Berlin, which they often share with fellow students. The housing market is very tight, so please start looking for an accommodation as early as possible.

For information on how to register for a dorm room or find accommodation elsewhere, please click [here](#).

Career advisory service The Career Service of the University of Potsdam supports students and graduates who want to actively shape their careers. The aim is to ensure comprehensive career orientation and to provide opportunities for the development of professional skills. The Career Service offers workshops, seminars, and individual counselling. There are information pages on a wide range of occupational fields as well as a database of internships and jobs. Many of the services are also available in English.

Support for international students and doctoral candidates

- Buddy programme
- Welcome event
- Tutors
- Specialist counselling
- Visa matters

Supervisor-student ratio 1:1

Contact

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🌐 Course website: <https://www.uni-potsdam.de/en/studium/what-to-study/master/masters-courses-from-a-to-z/astrophysics>

Prof Dr Philipp Richter

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✉ [Email](#)

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International Programmes in Germany - Database

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Editor

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German Academic Exchange Service
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www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing
www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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