



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Cardiovascular Science (MSc)

University of Göttingen • Göttingen

### Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	Courses are held in English.
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	30 April for the following winter semester (start: 1 October)
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>The Master's programme in "Cardiovascular Science" is a consecutive full-time study programme taught in English, which has the intention to train international students in all aspects of cardiovascular science. This will be achieved by its modular structure which offers students with a background in natural sciences or human medicine a broad education, not only in the relevant basics but also in modern clinical aspects which are essential for understanding translational research questions. A key feature of this programme lies in its high proportion of individual practical training, allowing students to gain experimental experience and insight into different research questions. After finishing their Master's theses, the graduates will be highly qualified for PhD programmes and their future careers in the field of cardiovascular sciences in academia and industry as well as in related occupational fields.</p>

### Course Details

Course organisation	The MSc programme in Cardiovascular Science contains four theoretical modules (M.CVS.101,
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M.CVS.102, M.CVS.201, M.CVS.301) with a consecutive curriculum covering basic knowledge on the organ and molecular level of the cardiovascular system, on cardiovascular diseases and therapies as well as on modern aspects of cardiovascular science including "state-of-the-art" work.

Practical work in the laboratory has a high priority in the programme. Within the first three semesters, three laboratory rotations of eight weeks each are to be carried out. The choice of the laboratory and the topic is completely free and according to the student's interest.

First semester:

M.CVS.101: "Cardiovascular Basics I" (lectures, seminars, and practical courses in anatomy, physiology, embryology, endocrinology)

M.CVS.102: "Cardiovascular Basics II" (lectures and seminars in cell biology, biophysics, biochemistry, signal transduction, genetics)

M.CVS.001: eight-week lab rotation I

Second semester:

M.CVS.201: "Cardiovascular diseases and therapies" (lectures, seminars, and practical courses in clinical aspects of cardiovascular diseases, cardiovascular pharmacology, interventional therapies)

M.CVS.002: eight-week lab rotation II

Third semester:

M.CVS.301: "Cardiovascular research in academia and industry" (lectures and seminars in clinical trials, state-of-the-art methods)

M.CVS.003: eight-week lab rotation III

Fourth Semester:

Six-month Master's thesis

[» PDF Download](#)

<b>A Diploma supplement will be issued</b>	Yes
<b>International elements</b>	<ul style="list-style-type: none"> <li>• Language training provided</li> <li>• International guest lecturers</li> <li>• Opportunities for students to work abroad</li> </ul>
<b>Description of other international elements</b>	Lab rotations and the Master's thesis can be done abroad (optional).
<b>Integrated internships</b>	During the Master's programme, all students carry out three lab rotations of eight weeks each in the research labs of the programme in Göttingen or in research labs in Germany and world wide.
<b>Course-specific, integrated German language courses</b>	No
<b>Course-specific, integrated English language courses</b>	No

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	None
<b>Semester contribution</b>	Fees are around 400 EUR per semester. The fees include a prepaid semester ticket that entitles students to use regional trains in Germany free of charge.

Fees: <http://www.uni-goettingen.de/fee>  
Semester ticket: <http://www.uni-goettingen.de/en/16432.html>

#### Costs of living

The average cost of living in Göttingen is modest compared to other major university cities in Germany. Currently, expenses for accommodation, food, health insurance and books are approx. 900 EUR per month. Please note that fees for health insurance may vary according to age. Living expenses might be slightly higher.

Students of the University of Göttingen receive discounts for cultural events. Meals and drinks are also available at reduced prices at all university canteens.

For further information, please see the following link: [www.uni-goettingen.de/en/54664.html](http://www.uni-goettingen.de/en/54664.html)

#### Funding opportunities within the university

Yes

#### Description of the above-mentioned funding opportunities within the university

Germany Scholarship (Deutschlandstipendium): <https://uni-goettingen.de/en/218085.html>

Lower Saxony scholarship (Niedersachsenstipendium): <https://uni-goettingen.de/en/306042.html>

## Requirements / Registration

#### Academic admission requirements

Applicants must hold a Bachelor's or equivalent degree in biology, biochemistry, biotechnology or related fields – degrees in nursery, midwifery or physiotherapy can not be accepted. For further details, see: <https://www.umg.eu/en/study-and-teaching/studieren-an-der-umg/study-programmes/cardiovascular-science/master/frequently-asked-questions-faq/>

#### Language requirements

Applicants who are not native English speakers should demonstrate adequate competence of the English language by acceptable results on an internationally recognised test (e.g., TOEFL, IELTS, APIEL, CPE). Proven higher education in English or a reasonably long stay in an English-speaking country is also acceptable.

Details can be found [here](#).

#### Application deadline

30 April for the following winter semester (start: 1 October)

#### Submit application to

<https://www.umg.eu/en/study-and-teaching/study-guidance/studienbewerbung/application-cardiovascular-science/>

## Services

#### Possibility of finding part-time employment

Because of the intensive nature of the programme, there will not be much time to work while studying.

A number of student jobs are available at the university. They are announced on the following website: [www.stellenwerk-goettingen.de](http://www.stellenwerk-goettingen.de)

Please note that restrictions may apply with your scholarship or visa. Non-EU students are subject

to special regulations.

Some proficiency in German may be indispensable to find a job. Non-EU students are permitted to work a maximum of 120 full days (240 half days) per year.

#### Accommodation

The Accommodation Service of the International Office supports international students who are enrolled at the University of Göttingen in finding accommodation and serves as a point of contact for related queries. The Accommodation Service also publishes suitable offers from private landlords in Göttingen and collaborates with the Student Services ("Studentenwerk"). As the number of available accommodation options in Göttingen is limited, it is highly recommended to contact the Accommodation Service as early as possible.

For further information, please see the following link: <https://www.uni-goettingen.de/en/617883.html>

#### Career advisory service

The Career Service of the university offers individual support for the job entry.

Especially for international students aiming for a career entry in Germany, the Career Service provides topic-specific workshops, online learning modules, and a qualification programme. [www.uni-goettingen.de/en/292.html](http://www.uni-goettingen.de/en/292.html)

The project "Start Guides" also offers assistance in developing and realising individual career perspectives in Germany. [www.uni-goettingen.de/en/637664.html](http://www.uni-goettingen.de/en/637664.html)

If you are interested in the topic of founding a company, start-up support is offered! The university supports you with advice, funding, qualification formats and network contacts. [www.uni-goettingen.de/en/en/1279.html](http://www.uni-goettingen.de/en/en/1279.html)

#### Support for international students and doctoral candidates

- Buddy programme
- Welcome event
- Tutors

#### General services and support for international students and doctoral candidates

International Office of the University: <https://www.uni-goettingen.de/en/574687.html>

German students help newly arrived students to adapt to the university and the city during their first weeks. <http://www.uni-goettingen.de/en/49307.html>

Orientation Week: <http://www.uni-goettingen.de/en/196392.html>

Study Buddy Programme: <https://www.uni-goettingen.de/en/112395.html>

Foyer International: <https://www.uni-goettingen.de/en/2554.html>

German courses during studies (free of charge): <https://www.uni-goettingen.de/en/7710.html>

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# University of Göttingen

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University of Göttingen – Committed to Excellence

Founded in 1737, the University of Göttingen is a research-driven university of high international standing. It is renowned for its diverse range of academic disciplines, research-oriented teaching, and outstanding scientific environment in which more than 40 Nobel laureates have studied, taught, or pursued their research. With about 28,500 students, 16 percent of whom are international students, and more than 210 degree programmes, the university is one of the largest in Germany.

### Variety of study programmes

The University of Göttingen offers a vast variety of academic programmes for undergraduate and graduate studies. Internationally renowned expert researchers teach in more than 40 academic disciplines. More than 40 full-time undergraduate and graduate programmes are taught entirely in English. Two international fast-track MSc/PhD programmes (Molecular Biology and Neurosciences) prepare students for unique careers in scientific research. Additionally, a growing number of double degree programmes with prestigious international universities are available.

<https://www.uni-goettingen.de/en/3811.html>

### Guidance, supervision, and study conditions

Students are given comprehensive advisory and supervisory support in all phases of their studies. Since advice and guidance are crucially important for the successful outcome of a university career, the University of Göttingen is constantly improving and extending its performance in this area.

<https://www.uni-goettingen.de/en/47239.html>

### Excellent library

The Göttingen State and University Library (SUB Göttingen) maintains a top position among German academic libraries, with a holding of over nine million books, journals and other media and offering a broad range of services for study and research. The library plays a leading role in a large number of national and international projects involving the optimisation of literature and information provision as well as the establishment and development of digital research and information infrastructures.

<https://www.sub.uni-goettingen.de/en>

### Alumni worldwide

As a member of the alumni network, you will continue to be part of the international "University of Göttingen Family" even after you have finished your studies. The Alumni Office currently connects more than 40,000 alumni from all over the world and provides them with current information and ongoing projects at the university and in the city of Göttingen. In addition, the alumni association offers various events and services for students and alumni related to careers and networking. One such initiative is their workshop series called "alumni4students," where you will have the chance to contribute your expertise.

<https://www.alumni-goettingen.de/>

[www.uni-goettingen.de/international-students](http://www.uni-goettingen.de/international-students)



## University location

Göttingen – a good place to live and study

Göttingen, with a population of approximately 130,000, is a city where tradition and innovation complement one another perfectly. The excellently preserved timber-framed houses in the historic quarter and the University of Göttingen with its 28,500 students create a lively atmosphere that would be hard to find elsewhere.

The university departments and buildings are mainly located on two campuses and are within easy walking or cycling distance from each other. Accommodation for 4,500 students and excellent canteens run by the student services organisation ("Studentenwerk") allow for a high quality of life at a low cost.

The university cooperates closely with non-university research institutes in Göttingen. Together, they form the "Göttingen Campus" – an alliance of cutting-edge research institutes. This includes four Max Planck Institutes and the Göttingen Academy of Sciences and Humanities in Lower Saxony as well as the German Primate Center and the German Aerospace Center. The Göttingen Campus has created an environment of openness in which students at all levels (Bachelor's, Master's or PhD) as well as experienced researchers can develop fresh and innovative ideas. Numerous scientists and scholars from the non-university research institutes lecture at the university, and joint professorial appointments create bridges between the university and campus partners. This structure supports the reputation of the University of Göttingen as one of the most successful research-oriented universities in Germany.

Situated in the geographical centre of Germany and Europe, Göttingen has excellent travel connections: Berlin, Hamburg, and Frankfurt are only a two-hour train ride away. But you don't have to go that far to take a break; Göttingen itself offers many options for recreational activities. The city boasts three theatres and a symphony orchestra. Many cinemas, cafés, and pubs provide numerous opportunities to meet like-minded people and enjoy yourself. Alternatively, you can play an active role in the student union, which sponsors many cultural and recreational events. Last but not least, the city and the university offer a variety of activities for sports enthusiasts. The "Hochschulsport Göttingen" (University Sports Centre) is one of the biggest in Germany and offers a wide range of disciplines and gyms for members of the Göttingen Campus. More than 150 different sports with an indoor pool, climbing centre, fitness studio, and several outdoor sports fields are offered at an extremely reasonable price.

# Contact

**University of Göttingen**  
Cardiovascular Physiology  
MSc Cardiovascular Science

Dr Christina Würtz

Humboldtallee 23  
37073 Göttingen

✉ [cvs.msc@med.uni-goettingen.de](mailto:cvs.msc@med.uni-goettingen.de)

🌐 Course website: <https://www.umg.eu/en/study-and-teaching/study-guidance/study-programmes/cardiovascular-science/>

📘 <https://www.facebook.com/cvsmaster/>

🐦 <https://twitter.com/unigoettingen>

🌐 <https://www.linkedin.com/school/-university-of-goettingen>

📷 <https://www.instagram.com/unigoettingen>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

## Editor

DAAD - Deutscher Akademischer Austauschdienst e.V.  
German Academic Exchange Service  
Section K23 – Information on Studying in Germany  
Kennedyallee 50  
D-53175 Bonn  
[www.daad.de](http://www.daad.de)

## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://www.gate-germany.de)

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