

## STUDY PROGRAM

1 <sup>st</sup> and 2 <sup>nd</sup> Semester	
Basic Module Biology	9 CP
Basic Module Chemistry	9 CP
Basic Module Physics	9 CP
Focus Module 1	9 CP
Focus Module 2	9 CP
Focus Module 3	9 CP
Nano-Science III	6 CP
3 <sup>rd</sup> and 4 <sup>th</sup> Semester	
Independent Studies	27 CP
Master Seminar	6 CP
Master Thesis	27 CP

CP: Credit Points

The Nano-Science Master's program is offered by the three Departments of Biology, Chemistry and Physics, which all have a long tradition and a good reputation in Germany. For teaching, we use modern course and lab facilities and offer a broad spectrum of methods, as well as cutting edge technologies.

In the first two semesters knowledge on the core subjects biology, chemistry, and physics is deepened on a broad basis. The third semester is devoted to the module Independent Studies. At this stage of study students receive the opportunity to discover and to study their areas of special interest within the subject of Nano-Science. For example, studies within this module may include internships abroad or industrial training. The last semester is reserved for the Master's thesis.



**Edition:** November 2016  
**Photo credits:** University of Tuebingen

## NANO-SCIENCE @ TÜBINGEN

### The University of Tübingen

Innovative. Interdisciplinary. International. Since 1477. These have been the University of Tübingen's guiding principles in research and teaching ever since it was founded. With this long tradition, the University of Tübingen is one of the most respected universities in Germany. Recently, its institutional strategy was successfully selected for funding in the Excellence Initiative sponsored by the German federal and state governments, making Tübingen one of Germany's eleven universities distinguished with that title of excellence. Tübingen has also proven its status as a leading research university in many national and international competitions – in key rankings Tübingen is listed among the best universities for the Humanities and Social Sciences as well as for Science and Medicine.

With its broad spectrum of subjects, the University of Tübingen provides a wealth of opportunities for interdisciplinary collaboration. And such close cooperation on research extends beyond the University and around the world. The University of Tübingen has joint research projects at all levels with other institutions of higher education, with research institutes and with industry.

The University's excellence in research offers optimal study conditions to students who come to Tübingen, combined with the opportunity to emphasize individual interests along the way. The attractive study environment is reinforced by many additional services, such as the Language Centre, interdisciplinary lectures in the Studium Generale and the state-of-the-art University Library. The University motto speaks for itself: attempto – I dare!

### The City of Tübingen

Tübingen does not have a university, it is a university: young, creative, open, innovative. The picturesque historical town center and its attractive position on the Neckar River offer a high quality of life whether you are studying, working, or taking a break.

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EBERHARD KARLS  
UNIVERSITÄT  
TÜBINGEN



# NANO-SCIENCE

## Master of Science

FACULTY OF SCIENCE  
Department of Physics



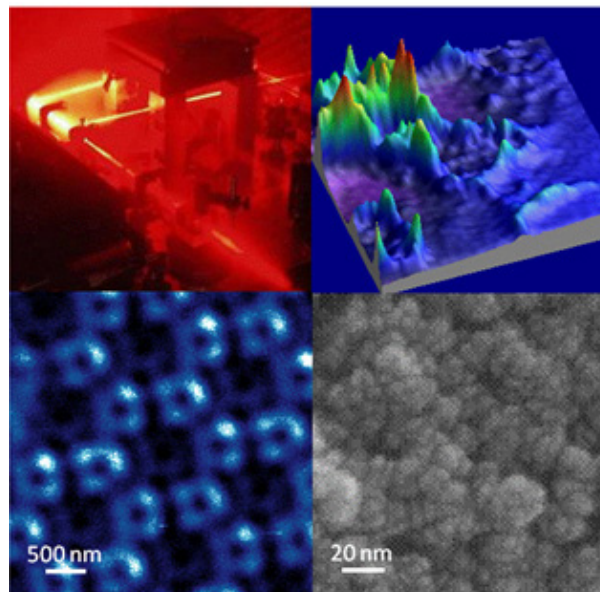
## PROFILE OF THE PROGRAM

With its interdisciplinary courses the master program Nano-Science aims to reach Bachelor graduates of nanoscience oriented degree programs. The master program provides students with the necessary knowledge and skills to work successfully analytically as well as application oriented in the rapidly growing future markets of nanoscience and nanotechnology.

## LEARNING CONCEPT/ COURSE CONTENTS

- Detailed knowledge and skills within the relevant areas of biology, chemistry and physics.
- High level of qualifications by attending the same modules as master students in the individual subjects.
- Hands-on training and interest-oriented education, especially within the individually designed Independent Studies module in the third semester.
- Seminars provide an integrated understanding of the course contents and help student connect with each other as well as with the lecturers.

## SCIENTIFIC PROFILE



## CAREER OPTIONS

### a) Professional Qualifications

The Nano-Technology sector is one of the fastest-growing markets in the world. Graduates of our Nano-Science Master's program have an excellent basis for working successfully at the interface of applied life sciences in a molecular and cell biological context.

### b) Further Opportunities

Under certain conditions graduates may undertake doctoral research in one of the three contributing departments or in another nanoscience-oriented discipline.

## REQUIREMENTS

The Central Student Administration of the University of Tübingen (ZSB) provides information and advice on interdisciplinary matters for students and interested persons, like the choice of programs, university access, shifting between universities, learning and working at the university, and more:

[zsb@uni-tuebingen.de](mailto:zsb@uni-tuebingen.de)

## SPECIAL REQUIREMENTS

Graduates of nanoscience-oriented degree courses may be admitted to this study program. This also applies to graduates of Bachelor programs in biology, chemistry and physics with a special focus on nanoscience. The coordinator of Nano-Science is available for further questions and information for your application, as well as for admission requirements.

## INFORMATION FOR APPLICANTS

The M.Sc. Nano-Science program commences each winter semester (starting in October).

Application deadline is July 15.

Information on admission to studies (requirements, restrictions, necessary documents, application deadlines, etc.) are available from Student Administration or the Nano-Science study coordinator.

The application may be submitted online only via

<https://movein-uni-tuebingen.moveonnet.eu/movein/portal/studyportal.php>

## FURTHER INFORMATION

[www.uni-tuebingen.de/nano-science](http://www.uni-tuebingen.de/nano-science)