Environmental Engineering Sciences (M. Sc.)

Study program

1	2	3	4
Compulsory Eligible Module[1)] 6 cr	Compulsory Eligible Module[1)] 6 cr	Compulsory Eligible Module[1)] 6 cr	30 cr
Soil and Water Resources Conservation 6 cr	Complex Landscape Analysis and Spatial Planning 6 cr	Research project 6 cr	
Environmental Planing and Management 6 cr	Acquisition and Analysis of Ecosystems Functions 6 cr	Compulsory Eligible Module[1)] 6 cr	
Environmental Informatics 6 cr	Environmental Geotech-nics and Landscape Construction 6 cr	Compulsory Eligible Module[1)] 6 cr	
Rural Water Management 6 cr	Circular Economy 6 cr	Compulsory Eligible Module[1)] 6 cr	Master Thesis

cr - credits (ECTS-System)

[1)] The scope of work for compulsory elective modules have to take at least 36 credits.

University of Rostock

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FACULTY OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

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State August 2019

Universität Rostock Traditio et Innovatio

Environmental Engineering Sciences

(Master of Science)

FACULTY OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Degree
Master of Science (M. Sc.)

Type of study
Consecutive course of studies
Single compartment master (not combinable)

Standard course duration
4 semesters

Beginn of study
For winter term (1st October, recommended)
For summer term (1st April)

Fields of study
Environmental- and Engineering Sciences

Formal prerequisites
First vocational qualifying university degree in a technical oriented environmental degree program or in an engineering degree program; certificate knowledge of English (B2) and German (B2).

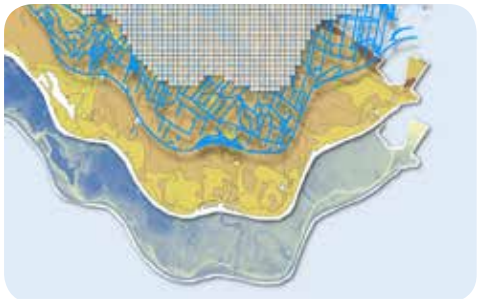
Special notes
In the third and fourth semester the master's degree program offers the possibility, alternative to the curriculum framework, to study one or two semesters at a foreign university.

Further option of qualification at the University of Rostock
- PhD of Engineering (Dr.-Ing.)

Environmental Engineering Sciences (M. Sc.)

Object and purpose of the study
The master´s degree program in environmental engineering is a **research-oriented** degree program with a total duration of 2 years. In the implementation of this **interdisciplinary** course 4 faculties of the University of Rostock are involved.
The study focuses on the present global environmental issues from an engineering perspective. Thus, problems of circular economy, water supply and wastewater treatment as well as energy supply alternatives will be discussed.

By imparting scientific relationships and applying modern methods, students learn how to effectively contribute to solving complex, future-oriented tasks in research, development and the application of engineering approaches to the environmental field. Students will deepen and broaden their knowledge gained in their bachelor's degree course. They are encouraged to do research on their own and acquire the scientific and methodological knowledge they will need for their professional career.



In the master´s degree program environmental engineering, besides detailed **expertise,** a number of **key skills** are taught which enable students to profile for research, scientific and advisory activities and the management of companies in the environmental sector.

The course comprises a large number of English lectures and seminars and thus aims at an international market.

Environmental Engineering Sciences (M. Sc.)

Structure of study
The course consists of compulsory and elective modules. The compulsory modules comprise nine modules with 54 credits. Furthermore, the student must attend 9 elective modules with 36 credits. In order to pass the master's degree exam, a minimum of 120 credit points are needed, consisting of the credits obtained by attending the modules and by writing the master thesis (30 credits).

Students will acquire in the first to the third semester **core competences** in the areas of waste management, environmental informatics, soil- and water conservation, rural water management, geotechnics and landscaping as well as environmental planning and management and impropriate **methods for scientific data analysis and evaluation.** Furthermore, the student must attend 9 elective modules allowing to set an individual focus during the study period. The wide range of thematically bunched elective modules and arbitrary elective modules provides a variety of opportunities to specialize. In the third semester there is the possibility to pass a **semester abroad.**

The knowledge taught in the lectures will be deepened and expanded in seminars, tutorials, internships and projects. The students will be encouraged by the lecturer to do their own research and acquire the necessary scientific-methodological instruments for their later professional activities.

The fourth semester is used for the preparation of the **master thesis.** The preparation of the master thesis abroad is supported.