

Degree Programme

3, 6, 12 or 30 credit points (CP) per module according to ECTS-System

|   |   |   |   |   |                                       |       |
|---|---|---|---|---|---------------------------------------|-------|
| 1 | Students Conference<br>6 CP                                 | Compulsory Elective Area Profile line <sup>1)</sup><br>6 CP | Compulsory Elective Area Profile line<br>6 CP | Free Compulsory Elective Area <sup>2)</sup><br>6 CP | Free Compulsory Elective Area<br>6 CP |       |
| 2 | Complex Analysis and Planning of Landuse<br>6 CP            | Compulsory Elective Area Profile line<br>6 CP               | Compulsory Elective Area Profile line<br>6 CP | Free Compulsory Elective Area<br>6 CP               | Elective Area<br>6 CP                 |       |
| 3 | Research Project Environmental Engineering Sciences<br>6 CP | Compulsory Elective area Profile line<br>6 CP               | Free Compulsory Elective Area<br>6 CP         | Free Compulsory Elective Area<br>6 CP               | Elective Area<br>6 CP                 |       |
| 4 | Master Thesis Environmental Engineering Sciences            |   |   |   |                                       | 30 CP |

<sup>1)</sup> Profil lines: Civil and Coastal Hydraulic Engineering, Environmental Analysis and Resource Protection, Technical Environmental Protection, Sustainable Environmental Planning. The scope of work for Compulsory Elective Modules in the Profil line must amount to at least 30 CP.

<sup>2)</sup> The scope of work for Free Compulsory Elective Modules must amount at least 30 credits.

University of Rostock

FACULTY OF AGRICULTURE,  
CIVIL AND ENVIRONMENTAL  
ENGINEERING

**Programme Coordinator**

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**Student Council**

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# Environmental Engineering Sciences

(Master of Science)



FACULTY OF AGRICULTURE,  
CIVIL AND ENVIRONMENTAL  
ENGINEERING

**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 (1<sup>st</sup> October, recommended)

For summer term (1<sup>st</sup> April)

**Fields of study**

Environmental- and Engineering Sciences

**Formal prerequisites**

- First vocational qualifying university degree in a technical oriented environmental degree programme or in an engineering degree programme
- proof of German language proficiency (B2),
- proof of English language proficiency (B2),

**Special notes**

In the third semester the master's degree programme offers the possibility, alternative to the curriculum framework, to study one semester at a foreign university.

**Further option of qualification at the University of Rostock**

- Doctor of Engineering Sciences (Dr.-Ing.)

**Subject and aim of the study programme**

The research-oriented Master's degree programme in Environmental Engineering deals with the central issues of the sustainable use of our environment and combines environmental analysis, engineering methods and qualifications for the planning and operation of buildings and facilities.

The structure of the degree programme enables a broad generalist education or specialisation in individual subject areas, depending on your interests. These include geoinformatics, recycling management, renewable energy technology, coastal and flood protection, urban water management and spatial and transport planning.



By learning about scientific contexts and modern working methods, students are enabled to actively participate in solving future-oriented, complex tasks in the environmental sector and to develop and apply suitable engineering approaches.

In addition to in-depth specialist knowledge, the course of Environmental Engineering sciences teaches a range of key skills that enable students to develop a profile for research, scientific and advisory activities and the management of companies in the environmental sector.

The Master's degree programme is also oriented towards the international job market by offering modules in English.

**Structure of study programme**

The programme is divided into compulsory, compulsory elective and elective modules and extends over three semesters. Students complete their Master's thesis in the fourth semester. In the compulsory section, in which three modules and the final examination must be completed, students acquire interdisciplinary skills for analysing and solving complex environmental issues and scientific work.

The extensive compulsory elective area offers qualification opportunities in the fields of environmental informatics, ecosystem functions, soil and water protection, circular flow management, water management, renewable energies, geotechnics and landscaping as well as urban and environmental planning. Students can specialise in four different profile lines, at least one of which must be chosen:

- Civil engineering and coastal hydraulic engineering
- Environmental analysis and resource protection
- Technical environmental protection and
- Sustainable environmental planning.

Students are encouraged by the lecturers to carry out their own research work and acquire the scientific and methodological tools necessary for their later professional activities.

