

Study program

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

1	2	3	4	5	6
Introduction to Environ. Engineering Sciences	Environ. Physics 3 cr	General Chemistry for Environ. Engineering Sciences 6 cr	Computer Science 1: Programming & Databases 6 cr	Engineering Mechanics I: Fundamentals of Statics 6 cr	Mathematics 1: Fundamentals and Unidimensional Analysis 6 cr
Environ. Chemistry and Analysis 6 cr	Basics of Site Evaluation and Ecology 6 cr	Computer Science 2: CAD and BIM 6 cr	Computer Science 2: CAD and BIM 6 cr	Engineering Mechanics II: Statics and Mechanics of Materials 6 cr	Mathematics 2: Linear Algebra and Geometry 6 cr
Introduction to Electrical Engineering 6 cr	Technical Hydromechanics 6 cr	Hydrology and Meteorology 6 cr	Hydrology and Meteorology 6 cr	Soil Physics for Environmental Engineering Sciences 6 cr	Legal and Economic Basics 6 cr
Geoinformatics/GIS 6 cr	Geodesy 6 cr	Design Theory and Basics of Spatial Planning 6 cr	Design Theory and Basics of Spatial Planning 6 cr	Environmental Process Engineering 6 cr	Applied Landscape Ecology 6 cr
Introduction in Circular Economy 6 cr	Stream & River Regulation, Coastal Engineering and Flood Protection 6 cr	Analysis of Environmental Data 6 cr	Analysis of Environmental Data 6 cr	Introduction to Urban Water Management 6 cr	Geotechnical Engineering 1: Soil Mechanics 6 cr
Compulsory elective Module <sup>1)</sup> 6 cr	Compulsory elective Module <sup>1)</sup> 6 cr	Compulsory elective Module <sup>1)</sup> 6 cr	Compulsory elective Module <sup>1)</sup> 6 cr	Bachelor Thesis Environmental Sciences 12 cr	Bachelor Thesis Environmental Sciences 12 cr

<sup>1)</sup> Compulsory elective modules must be taken for at least 18 credit points. They can usually be taken from the 5th semester onwards.

University of Rostock  
FACULTY OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Advisory Service

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Environmental Engineering Sciences

(Bachelor of Science)

## Environmental Engineering Sciences (B.Sc.)

### Degree

Bachelor of Science (B.Sc.)

### Type of Study

Basic study course with a first job qualifying degree  
Single compartment bachelor (not combinable)

### Standard course duration

6 Semester

### Beginn of Study

For winter term (01.10.)



### Fields of Study

Agricultural and Environmental Sciences  
Mathematics / Natural- / Engineering Sciences

### Formal prerequisites

University entrance qualification (e.g. Abitur certificate),  
certificate knowledge of German (B2),  
four-week internship in a programm-relevant field of application

### Special notes

The four-week internship is to complete before the start of the bachelor studies. On request, a completed vocational training can be recognized as an internship.

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

- Environmental Engineering Sciences (M.Sc.)

### Enrolment for new students

[www.uni-rostock.de](http://www.uni-rostock.de) from 01.08. to 30.09.

University of Rostock

## Environmental Engineering Science (B.Sc.)

### Object and purpose of the study

The undergraduate degree course „Environmental Engineering Sciences“ offers a basic training to be able to address and solve environmental issues in a holistic way.

The environmental engineer has an application-oriented knowledge for the design and implementation of engineering structures, applications in environmental process engineering, urban water management, waste and recycling management, rural water management, environmental data acquisition and processing, integral rural planning as well as renewable energies. He is able to plan facilities to shape and to protect the environment.



The Rostock study program differs from other environmental engineering studies by focusing on the peculiarities of rural and coastal regions. The questions and solutions to be addressed here are relevant in many regions around the world.

The course is assigned to the Faculty of Agricultural and Environmental Sciences and cooperates with the Faculty of Mathematics and Natural Sciences, the Faculty of Computer Science and Electrical Engineering and also the Faculty of Mechanical Engineering and Marine Technology.

## Environmental Engineering Sciences (B.Sc.)

### Structure of study

The undergraduate course in Environmental Engineering Sciences is a modularized course of studies. The study is divided into a compulsory and elective area. The compulsory modules comprise 27 modules with 162 credits. Furthermore, the student must attend elective modules with 18 credits.

Natural sciences, mathematical and engineering basics from the fields of construction, water management and process engineering as well as ecological, economic and legal key competences are taught. Based on this, the students are introduced to the essential fields of application of an environmental engineer. As an alternative to the study program, the undergraduate degree course in environmental engineering enables students to complete a semester at a foreign university. It is recommended to take an internship abroad in the 6th semester.



### What comes after your studies?

Typical fields of activity of the environmental engineer are for companies in the supply and disposal sector, the construction industry, environmental engineering, planning offices and consultancies, water and soil associations or in the public sector (environmental management) as well as in science.

In addition, the bachelor's program is followed by a master's degree course „Environmental Engineering Sciences“ which allows further deepening and specialization.

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