



Degree Program at a Glance

Standard Duration of Study / Credits

4 semesters / 120 credits, fulltime study

Degree

Master of Science (M. Sc.)

Start

Winter semester

Language of Instruction

English

Admission Requirements

The master's program 'Sustainable Resource Management' is aimed at internationally qualified graduates of scientific-technical or social science oriented studies who wish to extend and deepen their expertise in the field of sustainable resource management. It explicitly addresses students who already have professional experience. The program is open to students with a bachelor's or master's degree in one of the following disciplines:

- Engineering
- Science
- Economics
- Social science

A special aptitude assessment is carried out to evaluate the suitability of each applicant individually. For more information, visit: www.tum.de/en/studies/application-and-acceptance/

Costs per Semester

For more information, visit: www.tum.de/en/studies/fees-and-financial-aid/

More Information

www.forst.wzw.tum.de



Master of Science

Sustainable Resource Management

TUM School of Life Sciences Weihenstephan

Contact

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Forest Science and
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Objectives

Natural resources, such as earth, water, air and biological diversity, constitute the foundation of human life and industry. They serve as sources of nutrition, raw material or energy, as living and recreational space, even as sinks for pollutants. Global consumption of natural resources is rapidly increasing, made more severe by global population and economic growth. This leads to an increase of pressure on all natural resources, resulting in greater environmental concerns, such as the reduction of biodiversity, soil degradation, water shortages and air pollution. Conflicts of interest arise from the increasing scarcity of resources and lead to ever more frequent international tensions. A comprehensive and sustainable resolution represents one of humankind's greatest challenges to date.

In the face of these circumstances, the sustainable management of natural resources in the context of social, ecological and economic need becomes imperative. Along with solid specialist knowledge of various natural resources, this requires a thorough understanding of systems and wide-reaching competency in planning and methodology. The international Master's degree program in 'Sustainable Resource Management' offers the essential foundations for this kind of expertise. The program's objective is to give students the ability to sustainably manage natural resources on a scientific basis.

Recommended Prerequisites

- A large and diverse interest in the subject-specific topics
- Excellent English language skills
- The ability for joined-up and analytical thinking
- Good communication and presentation skills.

Study Structure

Semester 1	Natural Resources – Traits, Management, Theory of Sustainability Introduction to Economics and Business Ethics Inventory Methods, Statistics and GIS Project Management, Public Relations and Cross Cultural Communication Methods of Scientific Communication System Analysis and Introduction to Ecology
Semester 2 and Semester 3	2 Fields of specialization 3 Elective modules General Education Subject Internship The following nine fields of specialization are offered: <ul style="list-style-type: none">• Environmental Economics and Policy• Management and Protection of Forest Ecosystems• Wildlife and Protected Area Management• Landscape Management• Renewable Resources• Climate, Air and Water• Material and Waste Management• Agricultural Land-Use Systems• Soils and Soil Management
Semester 4	Master's Thesis

Special Features

- Since the introduction of the program students from over 90 different countries have studied the master's program 'Sustainable Resource Management'. On average, three-quarters of students are from abroad. This promotes intercultural competencies of students and teachers, enriches the teaching considerably and creates an international atmosphere.
- A large number of external lecturers from various countries are involved in the master's program. This provides the opportunity to acquire skills in all areas of resource management and to establish non-university contacts. Likewise, students benefit from a variety of international projects and contacts of the members of the Study Program Division.
- The master's program was awarded as an official project of the UN Decade 'Education for Sustainable Development'. The award is given to projects that arise concern on global education following the United Nations model by teaching and promoting exemplary sustainable thinking and actions.

Occupational Profile

The master's program is an inter- and cross-disciplinary program in which students from all over the world and from different disciplines are equipped with the expertise to face the manifold challenges of sustainable resource management. Possible areas of work for graduates are, for example, managerial positions in large companies, national and international governmental and non-governmental organizations, environmental consultancy and information services, the protection and management of ecosystems, as well as research and education.

