

Information Sheet for Incoming Students Forest Science and Resource Management

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TUM offers opportunities for international EXCHANGE STUDENTS (maximum of three semesters within the scope of an exchange program, like Erasmus+, TUMexchange or within a bilateral university agreement) as well as for international DEGREE STUDENTS (pursuing a BSc or MSc degree).

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Our Study Courses in Forest Science and Resource Management

Forestry Science and Resource Management (B.Sc.)

The program aims to teach students how to make sustainable use of resources, with reference to the example of the forest and wood as a renewable resource. In addition to well-founded specialist knowledge, this demands a comprehensive understanding of systems and extensive methodological competencies. As complex ecosystems, forests feature worldwide among the most significant biodiversity hotspots and fulfil numerous functions. They offer habitats for plant and animal species, produce wood –the most important renewable resource in terms of surface area and quantity –and make a fundamental contribution to the common good of society. In times of climate change and related efforts aimed at decarbonization, the significance of the forest as a supplier of energy and as carbon sink has further increased. Forest ecosystems must therefore satisfy numerous demands and, as such, are increasingly the focus of sociopolitical discourse. All of which is reflected in a demand for wood and wood products that has continually risen over the years, as well as in increasing efforts to protect and maintain forests. In order to do justice to these diverse and, in part, conflicting demands concerning the use of renewable resources and forest ecosystems, careful and comprehensive management is essential. To this end, the bachelor's program "Forest Science and Resource Management" offers the requisite discipline-specific foundations, as well as those relating to economics and the social and natural sciences. As such, fundamentals of natural science play a role equally important to that of the technical assessment of products, and the socio-political significance of natural resources.

Language of Instruction: German
Standard Duration of Studies: 6 semesters fulltime
Credits 180 ECTS

Forestry and Wood Science (M.Sc.)

The master's degree program in Forestry and Wood Science focuses on the sustainable management of forest resources. The degree's central areas of study are "Production", "Environment", "Society" and "Wood". These reflect the four principle fields of professional employment toward which the program is geared and indicate the breadth of academic training. The first semester deals with the fundamentals of the discipline and its methodologies. These are complemented by an internship and "cross-disciplinary competencies". In the second and third semesters, students choose three of the six available specialist areas: "Wood as raw/building material", "Mountain forestry", "Forest management", "International forestry", "Site assessment and use" as well as "Landscape development and nature conservation". In addition to the choice of specialist areas, the extensive range of available elective modules offers flexibility and the opportunity to create an individual profile without neglecting the breadth of training. The fourth semester is devoted to the master's thesis.

Language of Instruction: German
Standard Duration of Studies: 4 semesters fulltime
Credits 120 ECTS

Sustainable Resource Management (M.Sc. in English)

Natural resources, such as soil, water, air or biological diversity, constitute the essential foundations of human life and economic activity. Their consumption is rapidly increasing worldwide, a process further intensified by global trends, such as population and economic growth. This results in increasing pressure on all natural resources, accompanied by yet more environmental problems. Moreover, rivalries and conflicting interests increasingly develop over the use of resources that are continuously becoming more and more scarce. This also leads with increasing frequency to international tensions, the comprehensive and lasting solution to which currently poses one of the greatest challenges to humanity. The international master's program in Sustainable Resource Management addresses these challenges while taking into consideration their social, economic and ecological dimensions. As such, the focus lies on conveying suitable methods of analysis and management. With nine available areas of specialization, the program offers a large degree of freedom when creating an individual competency profile. The available areas of focus include: Environmental Economics and Policy; Management and Protection of Forest Ecosystems; Wildlife and Protected Area Management; Landscape Management; Renewable Resources; Climate, Air and Water; Soils and Soil Management; Material and Waste Management; Agricultural Land-Use Systems.

Language of Instruction: English
Standard Duration of Studies: 4 semesters fulltime
Credits 120 ECTS