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 only

Language of Instruction
English

Admission Requirements
A Bachelor's, Diplom or Master's degree, or the equivalent in the social or natural sciences, or agriculture; basic knowledge in economics and business administration: micro- and macroeconomics, and marketing; with at least 30 credits in both the social- and natural sciences. You must submit a letter of motivation and do an online aptitude assessment. Passing this stage of the evaluation process qualifies you for a final interview.

Proof of English language competency (e.g. at least 6.5 on the IELTS test) must be submitted before the end of the application period. For more information visit: http://www.tum.de/en/studies/application-and-acceptance/university-admission/language-certificates/.

Costs per Semester
TUM does not charge tuition fees. But you are required to pay a semester fee for the basic student union fees and the semester ticket for public transportation (http://www.tum.de/en/studies/fees-and-financial-aid/).

More Information
www.mlsep.wzw.tum.de

Contact

Technical University of Munich
TUM School of Life Sciences Weihenstephan
Study Program Division
Agricultural and Horticultural Sciences

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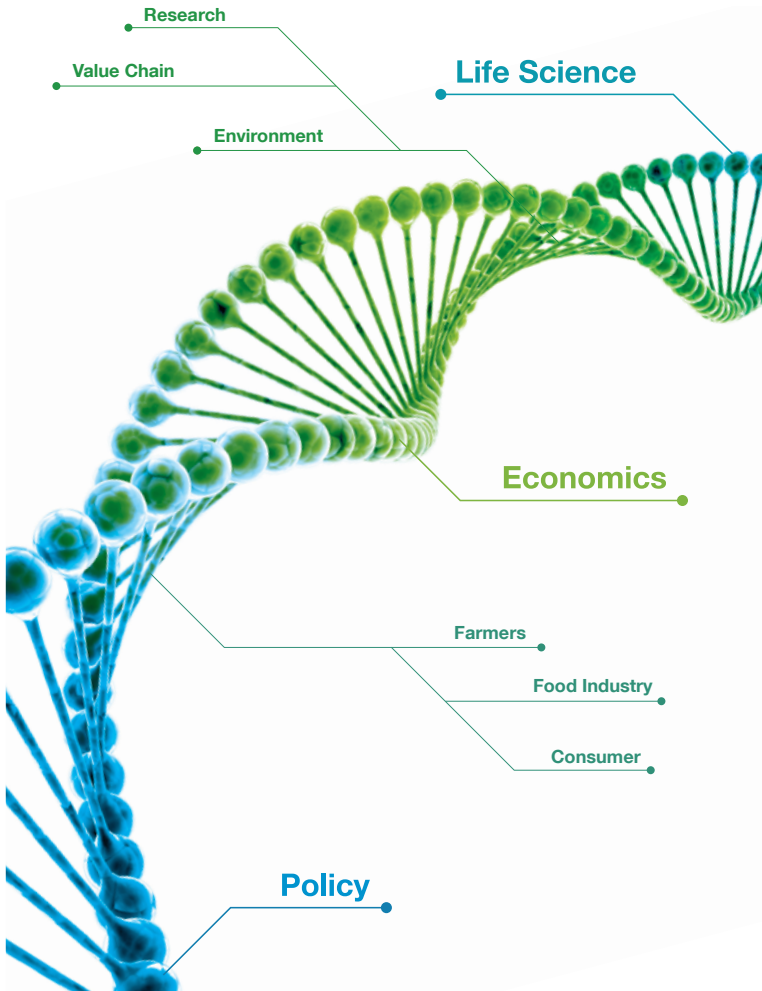
Master of Science

Life Science Economics and Policy

Technical University of Munich
TUM School of Life Sciences Weihenstephan
Study Program Division
Agricultural and Horticultural Sciences



Objectives

This program focuses on the bioeconomy by integrating issues of economics and policy with the life sciences. You will be equipped with in-depth technical knowledge and skills for finding solutions to pressing societal challenges, including:

- Analyzing the impacts of technologies and regulatory policies on society and the environment
- Evaluating and developing company strategies in response to new market and policy frameworks, and making policy recommendations
- Formulating relevant research questions, translating them into research projects, undertaking the latter, and finding answers to these inquiries

Learning outcomes include a thorough knowledge of the fundamental principles of research methods and design, economic theory and modeling, data collection, statistical and econometric analytical tools, the latest developments in contemporary theories and concepts, as well as social competencies and team leadership skills for an international working environment.

Recommended Prerequisites

The following interests and abilities are conducive to successful completion of the program:

- Current affairs in the bioeconomy, policy and trade
- Interdisciplinary and intercultural learning environment
- Teamwork, an inquiring mind, analytical competencies

Study Structure

Semester 1 Required Modules	Life Science Economics and Policy | International Commodity Markets and Trade Policy | Mathematics for Economics | Applied Statistics and Econometrics | Human Resource Management in Agriculture and Related Industries | Elective*
Semester 2 Required Modules	Agribusiness Governance | Value Chain Economics | Production and Risk Management | Excursion | *Elective | Elective
Semester 3 Required Modules	International Environmental Policy and Conflict Resolution** | Research Project | *Elective | Elective | Elective | Elective
Elective Modules (examples) Natural Science	Bioenergy Systems | Crop Physiology: Growth and Development of Plants | Energy Conservation and Alternative Energy Resources | Fisheries Management | European Environmental Law and Environmental Assessment | Introduction to Economics and Ecology | Land-Use Systems from a Global Perspective | Renewable Energy Technologies | etc.
Elective Modules (examples) Social Science	Advanced Environmental and Natural Resource Economics | Behavioral Economics | Biopolitics: Social, Political and Ethical | Consumer Behavior | Consumer Economics and Policy | Consumer Behavior Research Methods | Regulatory Economics and Policy | Development Economics | International Political Economy | etc.
Semester 4	Master's Thesis | Master's Colloquium

*Includes 'General Education' Elective (e.g. a language)
**Taken in first winter semester if a semester abroad is planned

Special Features

- An international program taught entirely in English with a unique focus on the bioeconomy by integrating economics and policy with the life sciences
- A required excursion to a firm or institution to gain practical insight into the management of policy issues
- A wide choice of electives, allowing you to focus on your unique area of interest
- A semester abroad (voluntarily) at an approved partner university
- A strong focus on developing excellent research, report writing and presentation competencies, by completing a research project and a master's thesis on current topics

Occupational Profile

Potential employers include international firms and institutions within the bioeconomy operating anywhere along the food value chain, or in the life sciences field. Employment opportunities encompass specialist leadership positions within regulatory affairs in industry (e.g. food processing, biotechnology), or in international policy and research organizations (e.g. World Bank), at insurance companies, consultancies, banks, or at research and/or academic institutions, as well as being self-employed practicing as a private consultant.