Degree Program in Brief

Duration of Study/Credits
4 semesters/120 credits, full-time program

Degree Type
Master of Education (M. Ed.)

Start of Course
Winter semester

Language
English

Admission Requirements
- Bachelor of Education or comparable degrees
- Proof of successful participation in either a lecture, seminar or project on research methods for the social sciences
- Proof of sufficient English language skills (C1)
- Passing the aptitude assessment procedure

Costs per Semester

Further Information
www.edu.tum.de

Contact

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General Questions about Studying at TUM
Student Service Center
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Program specific Questions
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Office of Academic Affairs
Marsstrasse 20–22, 80335 Munich, Room 123
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Objectives

The program provides educationalists, psychologists and student teachers with access to in-depth academic training in research on teaching and learning:

Professional competencies
Students explore key theories, concepts, methods and findings related to empirical educational research, and focus on teaching and learning in a variety of educational contexts. Students thereby acquire a basic knowledge of methodologies in behavioral and social sciences, which are based on research designs, data collection and data analyses.

Methodological competencies
Students acquire methodological competency in relation to the skills and abilities that are relevant to the area of empirical educational research. These include knowledge and skills in key working practices as well as basic knowledge of project and time management.

Social competencies
Furthermore, students acquire social competency by working together in teams on projects; they analyse the various strengths and weaknesses of project participants and then implement these results within the context of various projects.

The master’s program offers a qualification towards a career in research or a leadership position in an educational institution. Thanks to close links with the Faculty Graduate Centre, the master’s program is also of benefit to graduates who subsequently wish to study for a doctorate.

Requirements

To enjoy the program and to be successful, your interests and personal qualities should meet the following criteria:

• Eagerness to become an expert in empirical educational research and teaching methodology
• Strong affinity to research in social sciences
• Enjoy working in interdisciplinary teams and projects

Degree Program Structure

| 1st semester | Introduction to methods in teaching and learning science | Writing and presentation skills | Institutions in the international context of educational systems | Models and theoretical conceptions of teaching and learning research |
| 2nd semester | Models and theoretical conceptions of teaching and learning research | Advanced methods in teaching and learning science | Educational institutions and their quality development | Teaching and learning processes in classrooms and instructional design |
| 3rd semester | Educational processes and outcomes | Research on teaching and learning: specialization |
| 4th semester | Master’s Thesis |

Elective modules

1st–3rd semester

• Reading and administration of literature
• Analysis of variance
• Video analysis
• Analysis of interview data, learning journals and portfolios

Elective modules and internships

3rd–4th semester

• Research internship
• Internship in educational institutions
• Extended research internship
• Extended internship in educational institutions

Distinctive Features of the Program

• The program is taught by renowned professors in the fields of educational research, teaching research, method research, teacher education, secondary education and the teaching methodology of mathematics
• Integrated internships facilitate early student contact with research organizations and educational institutions
• Small working groups as well as the convenient location of all chairs in the same building allow for intensive student support

Career Profile

Empirical educational research is a growing field. This development is evidenced by the establishment of professorships that focus on empirical research in educational science and teaching methodology. In this field, particular attention is focused on the study of teaching and learning processes in a wide variety of educational contexts.

In addition, a large number of foundations, government departments and research organisations in Germany are very active in areas relating to teaching and learning both in and out of school, and constantly call for evidence-based support for initiatives.

Organisational developments in universities and research institutions also increases demand for staff who are qualified in this area of education.