FH CAMPUS WIEN
UNIVERSITY OF APPLIED SCIENCES

universität wien

Multilingual Technologies

Master's Degree Program

Multilingual Technologies

- Interdisciplinary, joint study program of the University of Vienna (Center for Translation Studies) and FH Campus Vienna (Faculty of Computer Science)
- Program focuses on equipping students with technical, linguistic, and cultural skills necessary for developing and deploying multilingual communication technologies
- Future-oriented professional field
  - E.g. language technology or machine translation
- Unique in Austria
- Combination of theoretical depth and practical orientation

Key Facts

Study places (new admissions): 30 per year

FH Campus Vienna:
- Mandatory attendance
- Repetition of one academic year possible

University of Vienna:
- Enrollment in the program
- Attendance required only for courses with continuous assessment
- Four examination dates for lectures

Admission Requirements

Admission to the Master's degree program Multilingual Technologies requires a **Bachelor's degree in a relevant subject** (e.g. Computer Science and Digital Communications of FH Campus Wien or Transcultural Communication of the University of Vienna) as well as the following subject-specific knowledge:

a. **Basic knowledge of language technologies and technical communication**: is fulfilled by the Bachelor's degree program Transcultural Communication or the completion of the **extension curriculum** Language Technologies and Technical Communication at the Center for Translation Studies.

b. **Basics of computer science, basic methods and tools of software engineering**: is fulfilled by the Bachelor's degree program Computer Science and Digital Communications or the completion of the **extension curriculum** Computer Science (for students of the University of Vienna) at FH Campus Wien.

Courses Master Degree Program MLT

Blue: University of Vienna
Orange: FH Campus Wien
White: both institutions possible

Introduction to Computational Linguistics ILV 6	Basics in Machine Translation ILV 5		
Multilingual and Crosslingual Methods and Language Resources ILV 6	Information Design for Language Data ILV 4	Academic Writing ILV 5	Data Protection and Privacy for Computational Linguists ILV 2
Multilingual and Crosslingual Methods and Language Resources VO 4	Information Extraction and Retrieval for Multilingual Natural Language Data ILV 6	Advanced Machine Translation ILV 5	IT Project Management for Computational Linguists ILV 2
Programming and Algorithms for Language Technologies VO+UE 6	Machine Learning Methods for Language Processing VO+UE 6	Human-Computer Interaction for Computational Linguists ILV 4	Master Colloquium SE 4
Statistical Methods for Language Processing ILV 4	Speech Technologies ILV 6	Software Engineering for Language Technologies ILV 6	Master's Finals AP 2
Translation Technologies VO 4	Transcultural Communication VO 3	Internship PR 10	Master's Thesis MT 20

Career Opportunities

>The interdisciplinary character of the program qualifies students for various working areas, for example:

- language, translation and localization industry
- language technology in the sense of language and text processing and translation technology
- transcultural knowledge organization
- language resource management
- machine translation
- multilingual product management
- multilingual information processing
- multilingual human-computer interaction
- usability and data science

Challenges

- **Admission to study**: Requires knowledge in two very different domains
- **Broad Curriculum**: Wide range of topics, danger of limited depth in some courses
- **Administrative Complexity**: Collaboration between University of Vienna & FH Campus Wien complicates administrative processes
- **Logistical Challenges**: Different systems, calendars, and requirements make course registration and access to resources more complex
- **Time Management**: Traveling between campuses, scheduling conflicts, and a divided academic identity

Similar Programs in Europe (Selection)

- University of Stuttgart – Master's in Computational Linguistics
- University of Amsterdam – Master's in Artificial Intelligence with specializations in Natural Language Processing and Computational Linguistics
- University of Edinburgh – Master's in Speech and Language Processing
- University of Cambridge – Master's in Machine Learning and Machine Intelligence
- Université Paris-Saclay – Master's in Language Science and Technology

Key Differences to Similar Programs

Multilingual Technologies	Other programs
Emphasis on multilingual NLP and translation technology	Often focused on monolingual (primarily English) NLP
Human-centered and ethical approaches to tech design	More focus on technical and algorithmic development
Interdisciplinary (linguistics, translation, digital humanities, computer science, software engineering)	Often computer science-driven with some linguistics
Career paths in translation, localization, multilingual data management	Career paths in NLP, AI, computational linguistics research

Conclusion

- >Innovative, interdisciplinary study program
- >Unique in Austria, several comparable programs in Europe, each of them offered by a single institution
- >Cross institutional collaboration leads to administrative challenges, but also to collaboration in research:
  - >One joint research project, several publications
- >Study program was awarded with Ars Docendi Anerkennungspreis in 2024

FH CAMPUS WIEN
UNIVERSITY OF APPLIED SCIENCES

Contact

Administration office
T: +43 1 606 68 77-2130
mlt@fh-campuswien.ac.at
www.fh-campuswien.ac.at/mlt_m