



## 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:

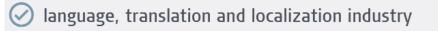
- a. Basic knowledge of language technologies and technical communication: is fulfilled by the Bachelor's degree program Transcultural Communication or the completion of the extension curriculum Language Technologies and Technical Communication at the Center for Translation Studies.
- b. Basics of computer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

Introduction to Computational Linguistics ILV 6	Basics in Machine Translation ILV 5	Blue:University of ViennaOrange:FH Campus WienWhite:both institutions possible	
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:



Ianguage 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



#### Contact

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