LANGUAGE TECHNOLOGIES AND DIGITAL HUMANITIES

Dean: Prof. Andrea Balbo
Similar courses?

No

other similar courses

in Northwestern Italy
Key information

- **Degree program class:** LM43 *METODOLOGIE INFORMATICHE PER LE DISCIPLINE UMANISTICHE*
- Nominal duration: 2 years, 120 CFU
- Departments: Studi Umanistici (reference Department)
  - Informatica; Studi Storici; Filosofia e Scienze dell’Educazione; Lingue; Psicologia; Giurisprudenza (other Departments)
- Teaching mode: blended but above all in presence
- Language: English
- Teaching seat: Turin
Admissions Requisites

• 1. Bachelor in L-1 Cultural Heritage; L-3 Disciplines of the figurative arts, music, performing arts and fashion; L-5 Philosophy; L-8 Information Engineering; L-10 Humanities; L-11 Modern languages and cultures; L-12 Translation; L-15 Tourism sciences L-19 Education and training sciences L-20 Communication sciences L-31 Computer science and technology L-42 History L-43 Technologies for the conservation and restoration of cultural heritage

• 2. At least 54 CFU/ECTS of English, Chinese, French, German, Spanish, Italian Language and Literature, Latin, Linguistics, Computer Science, Media science, Law, Sociology, Philosophy, Communication, Cinema, TV, Ancient, Medieval, Modern and Contemporary History, Art History, Romance Philology

• 3. At least 18 CFU taken from Computer Science, English, Italian, Latin, Modern and Contemporary History

• 4. QCER B2 in English
Next Admissions

• Admissions interview is required
• Next admissions
  • July 11\textsuperscript{st}, 2 p.m. (applications until July 8\textsuperscript{th})
  • September 19\textsuperscript{th}, 9 a.m. (applications until September 15\textsuperscript{th})
  • Nov. 5\textsuperscript{th}, 9 a.m. (applications until October 28\textsuperscript{th})
  • Jan. 17\textsuperscript{th}, 9 a.m. (applications until December 31\textsuperscript{st})

Every interview will be online on the following link Webex

https://unito.webex.com/meet/andrea.balbo
Occupational and professional opportunities for graduates

- Designer of digital environments in digital domain
- Digital publishing specialist
- Corporate digital communication specialist
- Cultural communication specialist in digital media
- Data linguist, Language engineer, Computational Linguist in the Natural Language Processing domain
- Specialist in the use of digital textuality
- Specialist in the design and management of digital media
- Cultural ICT Consultant
- Digital Cultural Asset Manager
Stakeholders and workshops

- MAIZE
- CERENCE
- AMAZON
- DScuola
- Sicuranext
- Shielder
- Maieutical Labs
- Ncode
- Fondazione Fitzcarraldo
Internships

• The above mentioned stakeholders will offer internships and opportunities to prepare the final dissertation within their structures.

• We will organize workshops during the course to facilitate contact between stakeholders and students in view of the definition of internships and the final dissertation.

• We are preparing international agreements to facilitate student mobility at Erasmus + level and in the UNITA alliance.
Profiles: Digital philology and linguistics

• Digital humanist / umanista informatico: profile with skills in creating, managing and using datasets and ability to design and manage digital archives for research and dissemination / communication initiatives, to be implemented in the cultural and multidisciplinary, interactive and interoperable fields;

• Digital philologist: expert profile in philology, cladistics and the use of digital text formats, with attention to the extraction of data even with distant reading techniques

• Linguist and digital lexicographer expert in the creation, management and use of corpora and digital archives

• Digital Historian
Profile: Language technologies

• Data linguist: profile with strong basic language skills (lexicon, syntax, semantics, pragmatics), skills in the creation and management of annotated corpora (multilingual datasets) and other linguistic resources, design and development of conversational interfaces, design and testing of information extraction systems;

• Language engineer: profile with strong machine learning skills, creation and use of Natural Language Processing pipelines, automatic classification, conception and development of new NLP algorithms, creation of statistical models for language;

• Computational linguist: profile that includes the skills of the Data linguist and of the Language Engineer
# Career plan

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# Disciplines: Computer science

## A) Linguistic Resources for Natural Language Processing: 12 CFU
- a.1) Computational Linguistics (6 CFU)
- a.2) Resources for NLP (6 CFU)

## B) Languages, methods and tools for developing NLP applications: 12 CFU
- b.1) Introduction to programming (6 CFU)
- b.2) Learning from data (6 CFU)

## C) Technologies for Multimodal Data Representation and Archives: 12 CFU
- c.1) Digital Archives (6 CFU)
- c.2) Linked Data and Knowledge Graphs (6 CFU)
Disciplines: Philology and Linguistics

L-FIL-LET/04 – Digital Latin (A. Balbo / E. Malaspina);
L-FIL-LET/09-12 Digital Italian Philology and History of Italian Language (A. Giraudo / M. Quaglino / M. Rivoira);
L-FIL-LET/10-11 – Digital Italian Literature (E. Mattioda / R. Galbiati / R. Palumbo Mosca)
L-FIL-LET/15 – Digital Philology (M. Berti, VP Leipzig);
L-LIN/03-05 Digital French & Spanish Literature (B. Monginot / G. Carrascon);
L-LIN/02 – 01: Speech Technology and Data-driven Corpus Analysis
(E. Corino – A. Romano)
Disciplines: History and Law

• IUS/01: Legal Aspects of Digital Technologies (S. Tobani);
• L-ANT/03-M-STO/01 – Digital Methods in Ancient & Mediaeval History (C. Lasagni / A. Fiore);
• M-STO/02 – Digital Methods in Modern & Contemporary History (E. Rai);
• SECS-P/12 – Digital History of Economy (G. Piluso)
Disciplines: Philosophy and Psychology

- M-FIL/06 Scientometrics (E. Petrovich)
- M-FIL/04 – Aesthetics (P. Kobau);
- M-FIL/06 – Distant Reading in the History of Philosophy (P. Tripodi);
- M-PSI/01: (I. Ronga)
New Courses in 2024-25

• Computational Linguistics
• Corpus Linguistics
• Rhetoric (Start@Unito)
• Digital Didactics (Start@Unito)
Students

2022-23: 17
2023-24: 60
2024-25: ...

Many foreign students enrolled to build future in the world

We are waiting for you!!!!
Info and contacts

- Prof. Andrea Balbo (andrea.balbo@unito.it)

- [https://www.digitalhumanities.unito.it/do/home.pl](https://www.digitalhumanities.unito.it/do/home.pl)