

Which professions are open to a graduate?

A degree in STeM+KICL provides students with qualifications that are currently in high demand on the labour market from employers in business, public institutions and research institutes.

Algorithmic processing of language and media is in demand both in informatics subjects such as artificial intelligence, machine learning and knowledge representation and in interdisciplinary collaboration with all other disciplines such as engineering, humanities, social sciences, law, economics and medicine.

Primary employers in this field are IT companies, especially in the areas of search engines, media, internet, advertising, social networks and dialogue systems. This ranges from the large digital corporations to innovative tech start-ups. However, there is also strong demand from all companies with large digital textual databases that need to be analysed automatically, e.g. for internal company information management, such as maintenance reports, or in customer service.

There is currently also considerable demand from public institutions that work with digitised textual data, such as libraries and public authorities. The academic sector and research institutions are also looking intensively for qualified personnel, as digitisation has opened up numerous new fields of research.



* The quote was generated fully automatically with the OpenAI GPT-2 language model 2, after reading the above text in an English translation.

The sentence ends with "...that can be used to predict the future."

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Language, Technology, Media

Focus on artificial intelligence and computational linguistics

Bachelor of Science (B. Sc.)

Study programme in German

For whom is STeM+KICL suitable?

- Are you interested in digital media and communication, especially how content can be analysed and generated with informatic methods?
- Do you want to automatically access, analyse and understand large amounts of textual and multimodal content and make it usable for humans and machines?
- Do you want to use the latest digital methods from artificial intelligence, machine learning and deep learning?
- Do you want a course of study that teaches practical skills and involves working with real data?
- Do you want to acquire technical skills and work in an application-oriented manner in interdisciplinary teams right from the start?
- Do you want to acquire expertise that will give you access to a broad spectrum of highly sought-after occupational fields in digitisation?

What is taught in STeM+KICL?

A Bachelor of Science (B.Sc.) in "Language, Technology, Media" (STeM) with a focus on "Artificial Intelligence and Computational Linguistics" (KICL) at Trier University imparts skills that are highly demanded on the modern job market:

Interdisciplinary

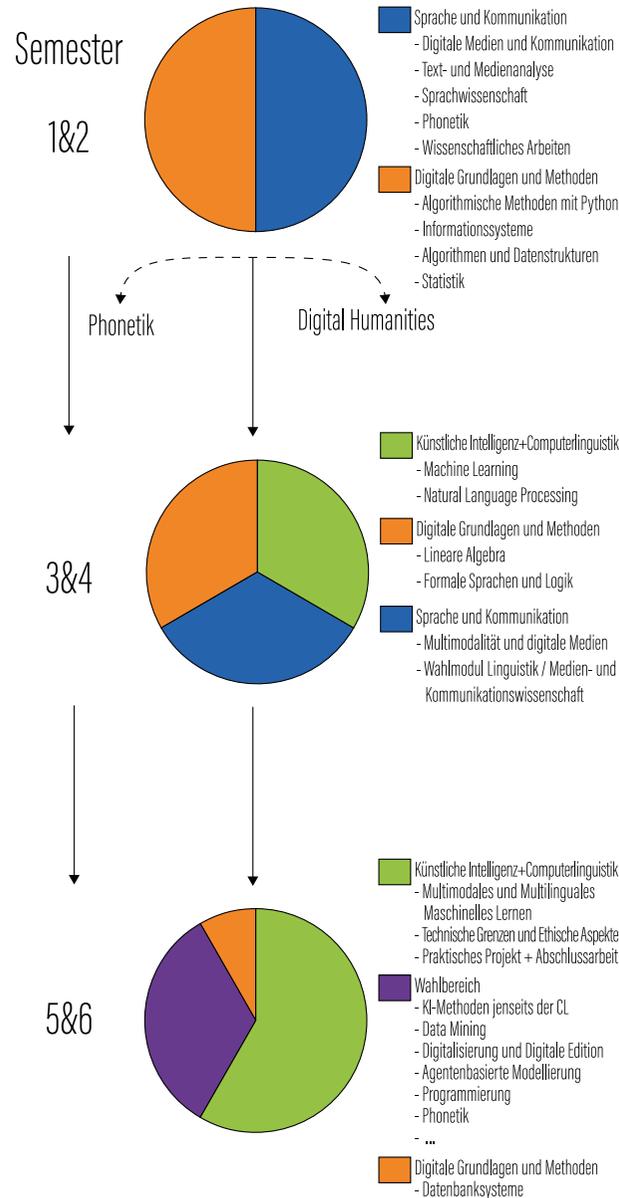
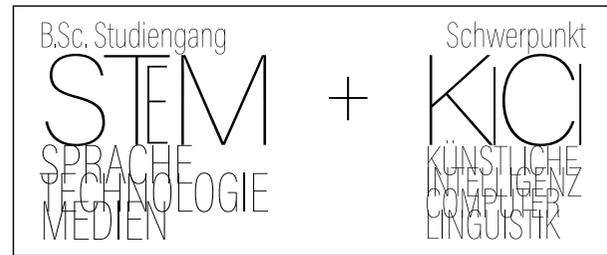
Understanding of modern technical methods of artificial intelligence for the interdisciplinary analysis and generation of language and media, as well as annotation of documents and their content integration beyond document collections.

Practical

Ability to develop, implement and use informatics methods using existing software libraries, and to experimentally and theoretically evaluate these methods in various language and media-based application scenarios.

Reflected

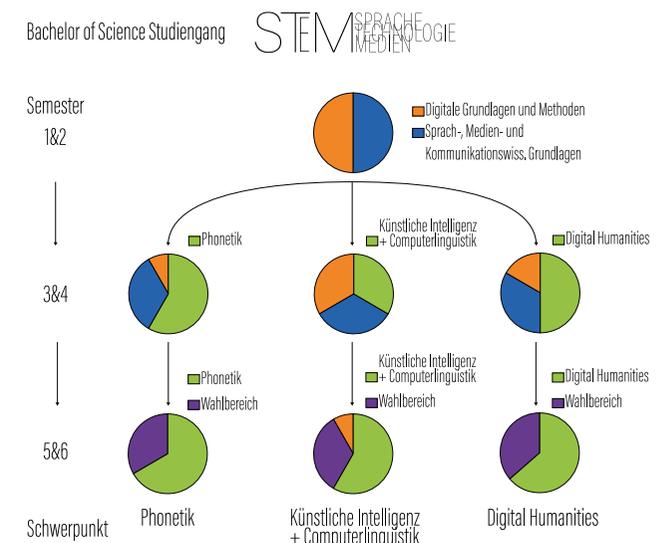
Ability to evaluate these methods and their use in relation to industry, society, politics and science. The STeM+KICL degree programme is particularly suitable for those who are interested in language, communication and media as well as in technical and scientific methods.



Contents of the study programme STeM + KICL

The bachelor's programme "Language, Technology, Media" (STeM) specifically addresses the field of language and media in digitisation and provides the technical and professional competence to apply the latest digital methods of computer-based processing, analysis and generation of language and media. It is interdisciplinary and covers natural language in full breadth: from written texts to spoken language to audio-visual and social media.

After the first year of study, students choose one of three possible study focuses: Phonetics, Digital Humanities, or Artificial Intelligence and Computational Linguistics.



The focus "Artificial Intelligence and Computational Linguistics" (KICL) allows students to choose an informatics focus that teaches modern algorithmic Big Data methods for analysing and generating language and media, as well as their content indexing and knowledge-based integration across document collections and media channels.