

Descriptions of Courses

Minor Program

HSS510 Natural Language Processing for the Humanities and Social Sciences

This course aims to learn and practice natural language processing methods related to digital humanities and computational social sciences. Specifically, this class examines which texts to select and analyze, and investigate which specific language processing models are used in the humanities and social sciences.

HSS511 Data Science for the Humanities and Social Sciences

This course aims to learn and practice the entire process from data collection, pre-processing, and visualization, which are essential for digital humanities and computational social science research. Specifically, students will learn social media data collection and web scraping methodology, and go through the entire process of the data analysis using clustering and machine learning models.

HSS551 Narratology and Big Data

In this course, students understand general theories of narratology and verify these through analytical methods used in data science. By collecting and analyzing narrative texts such as novels, films, and TV series, as well as derivative data such as comments, news articles and critics on those texts, students will familiarize themselves with major issues in narratology and try to develop new story creation technologies.

HSS553 Human-Computer Communication

This course aims to improve understanding of the dynamic interactions between humans and technology. Specifically, this course discusses how computer- mediation and human-computer interaction affect how people communicate in various settings. Lastly, we discuss the future of human communication.

DHS211 Introduction to Digital History

Digital history is a new form of historical inquiry to innovate mundane historiography. This course examines the historical context and global research-scape of DHis, provides an overview of relevant technologies, and explores efficient structurization of humanities data.

DHS405 Logic and Artificial Intelligence

We propose to study some of the most fruitful applications of logic in diverse areas of artificial intelligence researches. This includes non-monotonic logic, belief revision, epistemic logic, and temporal logic.

DHS407 Understanding Computational Social Science

This class is designed to introduce analytic approaches used in computational social science, and let students lead the research project throughout the semester