CULTURAL ANALYTICS (IAL)

IAL 620 Text Mining and Natural Language Processing 3
Students collect and analyze unstructured text data using web/API scraping methods, and then analyze their corpus using text mining and natural language processing. Additionally, students conduct a survey of relevant issues pertaining to privacy rights and intellectual property rights for web scraping and text mining methods.

**Prerequisites:** Admission to major or permission of instructor.

IAL 621 Content Analysis for Social Network Data 3
Students collect social network data to analyze trends (both hashtag trends and organic/non-tagged trends), focusing specifically on audience engagement and comments. Additionally, students conduct a survey of relevant issues pertaining to privacy rights and intellectual property rights for social network trends and audience analytics.

**Prerequisites:** Admission to major or permission of instructor.

IAL 622 The Internet of Things and Wearable Analytics 3
Students collect remote/mobile data using a microcomputer (Arduino, Raspberry Pi) or mobile phone, and then analyze that data by creating a dashboard visualization of their data. Additionally, students conduct a survey of relevant issues pertaining to surveillance and privacy rights for remote/mobile data collection projects.

**Prerequisites:** Admission to major or permission of instructor.

**Notes:** Same as ENG 613.

IAL 632 Ethics and Intellectual Property for Informatics and Analytics 3
Students engage relevant ethical and legal issues pertaining to datafication and intellectual property for informatics and analytics. Students conduct ethics and intellectual property research for a particular domain and then produce reports and presentations using reproducible methods.

**Notes:** Students cannot receive credit for both IAL 632 and CSC 632.

IAL 689 Capstone Project in Cultural Analytics 3
Capstone course. Students work with local industries and nonprofit organizations to solve important data science problems under the supervision of a mentor.

**Notes:** Same as ENG 624.