

Informatics (I)

I 301 Introduction to Informatics 3 Hours

Introduction to the field of informatics, including cultural heritage informatics, health informatics, human-centered data science, social informatics, social justice informatics, and user experience design.

I 302 Academic Success in the Digital University 3 Hours

Examine a wide variety of information and academic resources, tools, and skills; with a focus on the digital landscape of higher education.

Explore the features of the primary learning management system; communication and organization tools; library resources; basic online research resources; and ethical and safety concerns.

I 303 Ethical Foundations for Informatics 3 Hours

Survey the ethical foundations for informatics, incorporating non-Western and feminist perspectives. Apply these ethical foundations to contemporary problems in informatics. Examine the confrontation of ethical dilemmas in the workplace, including recognizing value trade-offs, affected stakeholders, and potential solutions.

I 304 Programming for Informatics 3 Hours

Examine the fundamentals of computer programming and practice developing and documenting code.

I 305 Research Methods for Informatics 3 Hours

Explore diverse research approaches to investigate informatics-related problems. Examine principles and hands-on practices of data collection and analysis with respect to qualitative, quantitative, and mixed research methods.

I 306 Statistics for Informatics 3 Hours

Examine fundamental principles of probability and statistics. Cultivate an understanding of descriptive and inferential statistics. Conduct and interpret statistical analyses using statistical analysis software, and apply these analyses to common issues in informatics.

I 310 Topics in Introductory Informatics 3 Hours

I 310C Introduction to Cultural Heritage Informatics 3 Hours

Examine the fundamentals of managing, describing, organizing, preserving, and providing access to data and information in a wide range of technological forms.

I 310D Introduction to Human-Centered Data Science 3 Hours

Examine the fundamentals of collecting, managing, and analyzing data; with consideration for the ethical responsibility of data science and the importance of critical thinking.

I 310J Introduction to Social Justice Informatics 3 Hours

Explore the leveraging of data, information, and technology for the greater benefit of society and to help ensure a level playing field for everyone in the information age.

I 310M Introduction to Health Informatics 3 Hours

Explore designing and implementing information technologies to improve healthcare delivery, healthcare management, and health outcomes.

I 310S Introduction to Social Informatics 3 Hours

Explore the leveraging of data, information, and technology to improve the efficiency and effectiveness of organizations while also providing a more ethical and humane environment for workers.

I 310U Introduction to User Experience Design 3 Hours

Introduction to user experience, human-computer interaction, and the human-centered design of interfaces and applications for mobile devices and the web.

I 119S, 219S, 319S, 419S, 519S, 619S, 719S, 819S, 919S Topics in Informatics 1-9 Hours

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University's Study Abroad Office. Credit is recorded as assigned by the study abroad advisor in the academic unit. University credit is awarded for work in an exchange program; it may be counted as coursework taken in residence. Transfer credit is awarded for work in an affiliated studies program.

I 320 Topics in Informatics 3 Hours

I 320.2 Children's Literature 3 Hours

Explore the evaluation, selection, and proper and creative use of books and other media with children.

I 320.3 Comics, Graphic Novels, and Manga 3 Hours

Examine the historical development and a contemporary survey of prominent visual narrative formats and genres such as graphic and visual novels, comics, and manga.

I 320C Topics in Cultural Heritage Informatics 3 Hours

I 320D Topics in Human-Centered Data Science 3 Hours

I 320J Topics in Social Justice Informatics 3 Hours

I 320M Topics in Health Informatics 3 Hours

I 320S Topics in Social Informatics 3 Hours

I 320U Topics in User Experience Design 3 Hours

I 129S, 229S, 329S, 429S, 529S, 629S, 729S, 829S, 929S Topics in Informatics 1-9 Hours

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I 372 Career Success in the Digital Organization 3 Hours

Examine the essential skills for obtaining a job and sustaining a successful career with an emphasis on integrity, teamwork, time management, responsiveness to feedback, and written and oral communication. Explore tools for computer-supported cooperative work that facilitate online collaboration.

I 178I, 278I, 378I Independent Study 1-3 Hours

I 178R, 278R, 378R Research Experience 1-3 Hours

I 178T, 278T, 378T Internship 1-3 Hours

I 379C Capstone 3 Hours

I 679H Honors Thesis 6 Hours

Research, read, and develop an honors thesis subject and proposal for one semester; followed in the second semester by the writing and defense of a final honors thesis.