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Information Science Curriculum Map 2013-2014

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This map displays degree requirements, courses, faculty information, clubs & organizations, and Library resources associated with American Studies across the seven Claremont Colleges (7Cs) for the 2013-14 academic year. It was compiled using public information drawn from Colleges websites, course schedules and catalogs, and the Claremont Colleges Library website. **These maps should be understood as a snapshot of the consortium in time, and not representative of current information beyond 2013-14.**
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Claremont Colleges Library: 7Cs Information Science Curriculum, 2013-14

Faculty — CISAT — CGU

Lorne Olfman
Areas of Specialization in Information Systems: End-user training, knowledge management and organizational memory, online learning systems, organizational learning, social software, and systems analysis and design

Tom Horan
Dr. Horan has approximately 25 years of experience in major innovations, most recently in the design and assessment of health information technology and related systems.

Samir Chatterjee
my main research focus has been in the design, implementation and testing of networking protocols and telecommunication software.

Gondy Leroy
Research Interests
Intelligent Interfaces: Natural Language Processing, Cognitive Psychology and Human-Computer Interaction
Text Mining: Natural Language Processing and Data Mining
..... for Medical Informatics and E-Government
Intelligent Systems Lab (for up-to-date information and ongoing projects)

Terry Ryan
My research and teaching has long been concerned with how people communicate about and with information technology.

Clubs & Organizations — CGU

Advanced Geographic Information Systems Lab (A-GIS)
Dr. Brian Hilton - Director
The Advanced GIS Lab in CISAT focuses on advanced spatial analysis and the research and development of advanced GIS solutions. The Lab stresses a transdisciplinary approach to knowledge, research, and problem-solving that takes the core ideas, methods, and concepts from several disciplines and uses them to study a broad range of problems. This transdisciplinary approach, a hallmark of CGU's research philosophy, extends the scope of interdisciplinary or multidisciplinary scholarship by traversing the range of traditional disciplines for the advancement of knowledge and solutions to the world's most pressing issues. Currently, the Lab is working on issues that involve using GIS technologies to improve community health management, better manage transportation systems, and target humanitarian relief efforts. The lab is an officially designated Esri Development Center (EDC)

Intelligent Systems Lab (ISL)
Dr. Gondy Leroy - Director
The goal of ISL is to develop and evaluate information systems that are user-friendly, dynamic, and learn from and for the user. Our intellectual goal is to find out what these systems require and why. We envision a world where computer and information systems partner with their human users. The two parties will communicate, anticipate each other's needs and wishes, and act accordingly. To this end, we work on different algorithms that deal with language, knowledge, computation, and visualization. Our research efforts, funded by NSF, NIH and Microsoft, are interdisciplinary as we frequently collaborate with different sciences and interest groups in order to maximize positive outcomes.

Kay Center for E-Health Research
Dr. Thomas Horan - Director
The Kay Center for E-Health Research was established in 2006 with a $1 million grant from the Kay Foundation. The Kay Center has quickly become one of our most active and publicized research labs. Kay Center research projects are designed to advance scientific understanding and public policy improvements relative to how new electronic health systems can be used to promote industry efficiency and societal welfare. The Kay Center will provide you with an excellent opportunity to conduct research in several areas related to e-health as well as establish valuable industry contacts through collaboration with outside organizations.

Network Convergence Lab (NCL)
Dr. Samir Chatterjee - Director
The Network Convergence Lab (NCL) is a close-knit family of learners (graduate students, researchers, faculty and staff) who continue to advance the fields of converged networks, Internet technologies and information security. The lab was established in 2002 by a research grant from the National Science Foundation and the central theme of our work deals with the design, development and deployment of advanced software systems. The lab plays a leading role in Internet2, videoconferencing over IP (VOIP) activities, and members regularly participate in various industry events.

Social Learning Software Lab ([SL]2)
Dr. Terry Ryan & Dr. Lorne Olfman - Co-Directors
The mission of [SL]2 is to learn more about how social software can promote learning and collaborative research in a virtual environment. Our researchers design, build, and test tools that let groups of learners express their individual views and questions, respond to the ideas of others, collaborate on shared learning goals, and otherwise interact in ways that promote learning. In [SL]2 we learn about social software by creating it and studying how learners use it.

Tech Clinic Program
The Tech Clinic Program is founded on a rich history of collaboration between industry and the Claremont Colleges where students, faculty, and industry sponsors work together to solve practical problems. CGU graduate programs emphasize "practice-based learning," where coursework connects contexts of work and study, enabling students to bring together learning generated by both. The questions and problems that student teams face are typical of those regularly confronted by practicing professionals.

Degree Requirements — CGU

Master's of Information Systems and Technology
The MSIST offers a distinct blend of practical application and theoretical focus. The curriculum has been designed to provide technical and managerial knowledge that you can use now and in the future.
The MSIST degree is very customizable. You can specialize in Cyber Security and Crisis Management, Social Technologies, Health Informatics, Mobile Technologies and Cloud Computing, or you can design your own specialization. You can also earn a formal concentration in GIS Solution Development.

Dual Degree MSIST/MBA
This degree program is offered jointly by the Center for Information Systems and Technology and the Drucker School of Management, and was created for those individuals seeking to expand their knowledge in the fields of technology and management.
The dual degree option allows you will earn two degrees simultaneously from expert faculty in both areas. This program will provide you with an outstanding opportunity to increase your marketability and gain a distinct competitive advantage in the professional marketplace.

PhD in Information Systems and Technology
CISAT's PhD program prepares students to participate in the academic IS&T research community. It is a demanding program focused on IS&T research. PhD graduates from CISAT are prepared to conduct rigorous and relevant IS&T research, as well as to apply what they know about IS&T research to teaching, consulting, and other activities.

Library Resources

- Information Science liaison, Linda Gunter
- Information Science Databases

Courses — CISAT

Master's Core Courses
- IST 300 - Programming
- IST 301 - Organizations & IST
- IST 302 - Database Concepts
- IST 303 - Software Development
- IST 304 - Communications & Networking
- IST 305 - Management and IS&T
- IST 306 - Delivering Business Value through IS&T Leadership

Doctoral Research Seminars
- IST 500 - Introduction to IS&T Research
- IST 501 - Research Methods for IS&T
- IST 502 - Practice & Profession of IS Academics
- IST 503 - Qualitative Research
- IST 504 - Advanced Quantitative Research
- IST 505 - Design Research Seminar

Electives
- IS 370: GIS Essential Concepts
- IS 372: Adv. GIS Solution Development
- IS 373: GIS Practicum
- IST 338: Adv. Software Development Tools
- ST 339: Adv. Comm. & Networking Tools
- IST 335: Cryptography & Computer Security
- IST 336: Social Technologies
- IST 337: Web Design
- IST 320: Knowledge Mgmt & Social Media
- HIM 350: Introduction to Health Informatics
- HIM 351: Project Mgmt for Health Informat.
- HIM 352: Statistics for Health Informatics
- IST 371 - GIS Solutions
- IST 333 - Knowledge Discovery & Data Mining