

# SCHOOL OF INFORMATION SCIENCE

Department Website ([http://www.sc.edu/study/colleges\\_schools/cic/](http://www.sc.edu/study/colleges_schools/cic/))

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The mission of the School of Information Science is to provide and promote education and leadership in information science, services, and studies through the highest levels of teaching, research and service. The school is committed to supporting the development and improvement of information services as an essential part of cultural enrichment, the dissemination of knowledge, and the enhancement of overall quality of life.

The School of Information Science offers the Ph.D. in Library and Information Science, the Master of Library and Information Science degree, the Information Security and Cyber Leadership and degree, and three programs of advanced study beyond the master's degree: the Certificate of Graduate Study in Library and Information Science, the Information Security and Cyber Leadership, Certificate, and the Specialist in Library and Information Science degree. Joint master's degrees are offered in conjunction with the English department and with the Public History Program (see Graduate Dual Degree Programs (<https://academicbulletins.sc.edu/graduate/dual-degree-programs/>)).

The Ph.D. in Library and Information Science is a research-intensive degree designed to prepare graduates for faculty and administrative careers in universities, research centers, and the public sector. The Ph.D. program is broadly interdisciplinary, with a curriculum balanced between the intellectual realms of library science and information science. While providing foundational courses covering theoretical and methodological approaches to information-seeking behavior and interactions with information in its many formats, the program also allows for study in a cognate discipline that sharpens and enriches a student's major research emphasis.

The Master of Library and Information Science degree is a program of basic professional education designed to prepare students for entry into positions in libraries and information centers in colleges, schools, communities, industries, and businesses. The M.L.I.S. program provides students not only a strong core of general knowledge of the profession but also the opportunity to explore individual areas of interest related to career preparation. Instruction is available to students in all areas of South Carolina through an extensive program of distance education. Advances in educational technology made it possible for the University of South Carolina to work cooperatively with appropriate agencies in Georgia, West Virginia, Maine, and Virginia to offer the complete M.L.I.S. program to students in those states who would not otherwise have access to an ALA-accredited program of library and information science.

The Certificate of Graduate Study in Library and Information Science is tailored to complement the Master of Library and Information Science program by providing post-master's degree instruction designed to enhance the student's career opportunities in a chosen area of specialization. Completion of the Certificate of Graduate Study in Library and Information Science will acknowledge to prospective employers the student's additional preparation for specific job responsibilities.

The Specialist in Library and Information Science is a sixth-year degree program for librarians, information managers, media specialists, and

other related professionals who wish to refresh and update their knowledge and skills, gain greater specialization in their professional training, or redirect their careers from one area to another. The school meets the National Council for Accreditation of Teacher Education standards for teacher education programs.

## Programs

- Library and Information Science, M.L.I.S. (<https://academicbulletins.sc.edu/graduate/information-communications/library-information-science/library-information-science-mlis/>)
- Library and Information Science, Ph.D. (<https://academicbulletins.sc.edu/graduate/information-communications/library-information-science/library-information-science-phd/>)
- Specialized Study in Information Science, Certificate (<https://academicbulletins.sc.edu/graduate/information-communications/library-information-science/library-information-science-certificate/>)

## Courses

### ISCI 501 - Teaching and Training in Distributed Environments (3 Credits)

Knowledge and skills for applying complementary technologies for learning in distributed learning environments (Pre-K-lifelong) through lecture, demonstration, and discussion.

### ISCI 523 - Materials for Early Childhood (3 Credits)

Media resources and techniques for children from birth to 9 years. Reading interests and developmental needs of young children. Authors, illustrators, indexes, bibliographic tools, evaluation sources, and professional literature. Not open to students enrolled in M.L.I.S. program.

### ISCI 525 - Materials for Children (3 Credits)

Media resources for children. Reading interests of children and their curricular and independent needs for information. Authors, illustrators, indexes, bibliographic tools, and sources of evaluation of materials for children. Techniques and literature for read-aloud programs and storytelling. Not open to students enrolled in M.L.I.S. program.

### ISCI 527 - Materials for Adolescents (3 Credits)

Media resources for adolescents. Reading interests of adolescents and their curricular and independent information needs. Study of relationships of media to information needs and critical comparison between classic and contemporary materials for adolescents. Indexes, bibliographic tools, and sources of evaluation of materials. Not open to students enrolled in M.L.I.S. program.

### ISCI 529 - Special Topics in Library and Information Studies (3 Credits)

Specific topics of current concern to the library, information, and media professions to be identified by title. Not open to students enrolled in M.L.I.S. program.

### ISCI 530 - Applications of Information Technology and the Infrastructure (3 Credits)

Introductory knowledge for school library media specialists, teachers, administrators, parents, and other citizens interested in practical applications of information technology to support learning, decision making, and community building.

### ISCI 534 - Knowledge Discovery Techniques (3 Credits)

Knowledge discovery techniques and applications.

**Prerequisites:** ISCI 434 for Undergraduate Students.

**ISCI 560 - Data Visualization (3 Credits)**

Foster theoretical insights about data visualization. Prepare temporal, geospatial, and textual data for visual representations. In hands-on sessions, students practice data visualization techniques and apply them in a wide range of real-world scenarios.

**ISCI 600 - Storytelling: Theory, Practice, and Development (3 Credits)**

Storytelling methods, techniques, and materials encompassing heritage, art, literature, and programming.

**ISCI 608 - Information Behavior and Practices (3 Credits)**

Focuses on theories, models, and concepts of information behavior. Emphasizes information seeking and use practices and activities in relation particular communities, channels and barriers to information, and the impacts of technology. Provides an introduction to methods that can be used to study information needs, information seeking behavior, and related phenomena.

**ISCI 700 - Introduction to Graduate Studies in Library and Information Science (0 Credits)**

An introduction to skills and strategies for succeeding as a graduate student in the graduate programs of the School of Information Science at UofSC (Pass/Fail grading).

**ISCI 701 - Ethics, Values, and Foundational Principles of Library and Information Science Professions (3 Credits)**

Introduction to the issues and core values of library and information professions, including equity of access, literacy and learning, information policy, collaboration, service, professional growth and development, and culturally responsive practice.

**ISCI 702 - Community Engagement and Service (3 Credits)**

Explores the role of library and information organizations in communities, with a focus on building community relationships, engagement, and outreach.

**ISCI 703 - Reference and Instruction (3 Credits)**

Introduction to the design and delivery of instructional services and assistance on the use of information resources to promote information literacy and informed decision-making.

**ISCI 704 - Leadership in Information Organizations (3 Credits)**

Introduction to the nature, development, roles, and fundamental issues of leadership in library and information organizations.

**ISCI 705 - Research Design and Evaluation (3 Credits)**

Introduces the research process as applied to library and information science topics with an emphasis on research methods, critical evaluation, and the practical application of research.

**ISCI 706 - Information Organization and Access (3 Credits)**

Explores the design, use, and evaluation of information organization and retrieval systems to support digital curation and preservation, metadata generation, and information-seeking.

**ISCI 707 - Information Organization and Retrieval (3 Credits)**

Issues and techniques of knowledge representation and information organization, information retrieval systems, and users' information seeking behavior.

**Prerequisite or Corequisite:** ISCI 701.

**ISCI 709 - Fundamentals of Data and Digital Communications (3 Credits)**

A comprehensive overview of data science basics and applications for communications. Introduces basic concepts, applications, and tools of data science for communication purposes. Includes basic theories and approaches in communications.

**Cross-listed course:** JOUR 709

**ISCI 710 - History of Information Organizations and Technologies (3 Credits)**

A survey, from ancient times to the present, of the evolution and social role of information organizations (libraries, archives, information centers, etc.) and technologies (books, journals, computers, etc.). Emphasis on the U.S. in the 19th and 20th centuries.

**Prerequisites:** ISCI 701.

**ISCI 711 - Introduction to Archival & Records Studies (3 Credits)**

Nature and use of archives and records; functions of archives and records professionals; and legal, ethical, and political issues in archives and records.

**ISCI 715 - Printing (1 Credit)**

Introduction to printing with movable type. This course is designed to give students some experience in designing and printing books and broadsides. Examination of paper, typefaces, composition work, and simple bookbinding are included.

**ISCI 716 - Introduction to Bibliography and Textual Studies (3 Credits)**

Introduction to analytical, descriptive, and textual bibliography, and to the principles and practice of editing.

**ISCI 717 - Special Collections Librarianship (3 Credits)**

Introduction to the missions, professional standards and best practices of special collections librarianships. Topics include access and acquisitions, collection assessment and development, collection management and maintenance, donor relations, public programming and current issues and trends. Restricted to ISCI graduate students.

**ISCI 718 - History of Children's and Young Adult Literature (3 Credits)**

Historical overview of the literary content, illustration, and social values of children's and young adult literature written in English. Examines the influence of movements such as Romanticism, Rationalism, and postmodernism, as well as changing trends over time.

**ISCI 719 - Preservation Planning and Administration (3 Credits)**

The planning and administration of preservation programs in libraries, archives, records centers, and manuscript depositories.

**Prerequisites:** ISCI 701.

**ISCI 720 - School Library Media Program Development (3 Credits)**

Roles, functions, and organization of school library media programs. Systematic planning and evaluation, leadership, advocacy, and integration of program into the curriculum.

**ISCI 721 - Seminar in School Library Programs (3 Credits)**

Problems relating to contemporary school media programs will be identified and analyzed by students, drawing from their own experiences, pertinent literature in the field, and field investigations.

**Prerequisites:** ISCI 701, ISCI 703, ISCI 705, ISCI 707, ISCI 720.

**ISCI 724 - Special Libraries (3 Credits)**

An overview of industrial, business, governmental, and professional libraries and related information organizations. Study of their organizational characteristics, governance, services, distinctive features. Major part of course is simulation of information management problems in these organizations.

**ISCI 725 - Digital Libraries (3 Credits)**

History and current state of digital records, including their storage, organization, and preservation in digital libraries.

**Prerequisites:** ISCI 701, ISCI 707.

**ISCI 726 - Knowledge Management for Library and Information Professionals (3 Credits)**

An introduction to the background, principles, practices, and technologies of knowledge management for library and information professionals.

**ISCI 727 - Health Sciences Library Services (1 Credit)**

A detailed study of traditional and innovative services characteristic of health science libraries. Includes community study design and evaluation of services. For those students committed to careers in health sciences libraries.

**Prerequisites:** ISCI 726.

**ISCI 728 - Public Library Systems (3 Credits)**

Course focuses upon three topics: 1) organizational patterns for various library operations, local and regional; 2) the political environment of the public library; and 3) major problems confronting public library systems.

**Prerequisites:** ISCI 701.

**ISCI 729 - Academic Libraries (3 Credits)**

An analysis of the historical development and current issues in academic libraries.

**Prerequisites:** ISCI 704.

**ISCI 730 - Cataloging Information Materials (3 Credits)**

An in-depth study of AACR2 covering both print and nonprint materials; searching bibliographic materials in a database, editing and updating them; principles of coding, tagging, and entering the results into a database; discussion of administrative problems.

**Prerequisites:** ISCI 702.

**Prerequisite or Corequisite:** ISCI 707.

**ISCI 731 - Subject Analysis and Classification (3 Credits)**

Study of major classification and subject authority systems. Emphasizes the understanding and application of these systems in information agencies.

**Prerequisites:** ISCI 730.

**ISCI 732 - Indexing and Abstracting (3 Credits)**

Introduction to principles and practices in abstracting and indexing.

**Prerequisite or Corequisite:** ISCI 707.

**ISCI 733 - Serials (3 Credits)**

An introductory study of methods and problems in acquiring, organizing, and retrieving serial publications with an emphasis on the special features of serials. Includes an introduction to computer applications.

**Prerequisites:** ISCI 702.

**ISCI 734 - Government Information Sources (3 Credits)**

Creation, acquisition, organization, retrieval, and use of government-produced information. Emphasis is on U.S. government information but includes attention to state, local, and international sources.

**Prerequisites:** ISCI 703, ISCI 707.

**ISCI 735 - Metadata (3 Credits)**

Examination of metadata definition, selection and applications; Role of metadata in information discovery, acquaintance with various metadata schemes and standards for libraries, museums, archives and info centers.

**Prerequisites:** ISCI 707.

**ISCI 738 - Seminar in Technical Services (3 Credits)**

Management, personnel, and materials within technical service departments for all types of libraries. Standardization, centralized and cooperative efforts, automation and evaluation as applied to all functions within technical services departments.

**ISCI 740 - Online Information Services (3 Credits)**

Direct experience searching online databases and examination of related administrative issues.

**Prerequisites:** ISCI 707.

**ISCI 741 - Educational Services in Library and Information Organizations (3 Credits)**

Applications of human learning theory and presentation techniques to information literacy programs and curriculum collaboration for library and information professionals.

**Prerequisites:** Completion of 9 semester hours of ISCI graduate-level classes.

**ISCI 742 - Curricular Role of the School Librarian (3 Credits)**

Role of the school library media specialist in integrating the school library media program into a K-12 standards-based curriculum, including best practices, needs assessment, collaboration, instructional design, and resource provision.

**Prerequisites:** ISCI 701, ISCI 706, ISCI 703 preferred and required education courses (for initial certification candidates).

**ISCI 743 - Health Information Retrieval in Electronic Environments (3 Credits)**

Presents a survey of electronic information resources in the health sciences and an introduction to advanced searching techniques and analytical skills to access biomedical literature.

**ISCI 744 - Music Libraries and Information Services (3 Credits)**

Acquisition of and special cataloging requirements for printed music, recordings, and multimedia; collection management; administration of music libraries; preservation/conservation of special materials.

**ISCI 745 - Social Science Information Services (3 Credits)**

Considers how literature and information services in the social sciences are organized for the purpose of interpretation and delivery. Students survey the literature of psychology, sociology, political science, and other disciplines in some detail. Practice in question consultation and database searching will be included.

**Prerequisites:** ISCI 703, ISCI 707.

**ISCI 746 - Humanities and Arts Information Services (3 Credits)**

A survey and evaluation of the nature, history, and bibliography of the literature of the humanities and arts. Emphasizes the distinctive features of materials, research, communication, and information-seeking patterns.

**Prerequisites:** ISCI 703.

**ISCI 747 - Science and Technology Information Services (3 Credits)**

A survey of literature in the basic sciences and applied technical fields. Examines distinctive features of materials, research, and information communication patterns in the various fields. Practice in question consultation and database searching will be included.

**Prerequisites:** ISCI 703, ISCI 707.

**ISCI 748 - Business Information Sources and Services (3 Credits)**

Coverage of the bibliographic and information systems relevant to contemporary managerial information needs, with emphasis on the literature of business and finance, and including statistical materials, literature guides, and investment services. Specialized problems related to the organization and operation of business information systems. Practice in question consultation and database searching will be included.

**Prerequisites:** ISCI 740.

**ISCI 749 - Health Sciences Information Resources (3 Credits)**

Characteristics and use of print and computer-based materials in the health sciences and for general reference librarians.

**ISCI 750 - Information and Records Management (3 Credits)**

An introduction to the role and functions of the information manager in organizations with emphases on use, retention, and management of information and records.

**Prerequisites:** ISCI 701.

**ISCI 751 - Libraries, Literacy, and Literature (3 Credits)**

Ways in which libraries and librarians become more effective providers and partners in the literacy movement.

**Prerequisites:** ISCI 701.

**ISCI 752 - Diversity in Libraries (3 Credits)**

Nontraditional library users in all types of libraries. Literacy programs, disabled and/or institutionalized persons, older adults, and members of selected ethnic groups.

**ISCI 753 - Seminar in Information Services (3 Credits)**

Planning and evaluating information services. Emphasis on policy and decision making regarding current issues.

**ISCI 754 - Library Programming for Children and Young Adults (3 Credits)**

The nature, philosophy, and development of non-curricular programs for children and young adults in the school and public library. Among the types of programs to be discussed are storytelling, film programs, reading programs, programs for parents, and other activities associated with library service to young people. Students will study the principles and problems involved in designing, implementing, and evaluating programs of this nature.

**ISCI 755 - Popular Materials and Programming for Adults (3 Credits)**

Materials popular with adult readers and programs utilizing those materials. Extensive reading and experience in planning and presenting programs.

**ISCI 756 - Children's Materials (3 Credits)**

A study of materials intended for children of elementary school age (6-13) with emphasis on the process of evaluating them to meet the educational, cultural, and recreational needs of children.

**ISCI 757 - Young Adult Materials (3 Credits)**

A study of materials for young adults (13-19) with emphasis on the process of evaluating them to meet the educational, cultural, and recreational needs of young adults.

**ISCI 758 - Consumer Health Resources and Information Services (3 Credits)**

Concepts and current trends in the creation, implementation, and evaluation of adult consumer health resources and services, including consumer health informatics and e-health.

**ISCI 759 - Materials for Early Childhood (3 Credits)**

A study of picture books and audiovisual materials intended for the very young child through age 9 with emphasis on the process of evaluating these materials to meet the educational, cultural, and recreational needs of very young children.

**ISCI 760 - Materials and Services for Latino Youth (3 Credits)**

Introduces a wide range of print and nonprint materials appropriate for Latino youth. Provides resources for librarians and educators serving young Latinos literacy needs.

**ISCI 761 - Information Technologies in the School Library Program (3 Credits)**

Technology management, use of technology and nonprint resources, and their integration into the K-12 curriculum.

**Prerequisites:** ISCI 706.

**ISCI 764 - Universal Design and Accessibility for Youth (3 Credits)**

This course will offer an introduction to the process of selecting and evaluating materials for children and youth who are differently-able, or who have disabilities. It will also offer an introduction to the process of planning and implementing programming for these populations. Special emphasis will be placed upon Universal Design and creating inclusive environments and service learning opportunities.

**ISCI 765 - Planning Library Facilities (3 Credits)**

An introduction to the process of planning new and renovated spaces and facilities. Content covers roles of participants in planning preparation of building program and examines examples of recent buildings.

**Prerequisites:** ISCI 701, ISCI 704.

**ISCI 766 - Collection Development and Acquisitions (3 Credits)**

An examination of information agencies and their purposes, collections, collection policies, and acquisition procedures.

**Prerequisites:** ISCI 701.

**ISCI 767 - Management of Public Library Youth Services (3 Credits)**

Planning, implementation, and evaluation of public library services for children and young adults.

**Prerequisites:** ISCI 701.

**ISCI 768 - Challenges in Information Intensive Organization Administration (3 Credits)**

Examines in detail frequently occurring problems that require decision activity by information intensive organization managers, directors, and other administrators.

**ISCI 770 - Design and Management of Databases (3 Credits)**

Databases used in libraries and other information agencies, including operational and functional design. Extensive hands-on evaluation of selected database software packages.

**Prerequisites:** ISCI 701, ISCI 707.

**ISCI 772 - Strategic Intelligence for Information Professionals (3 Credits)**

Principles and practices of information gathering and analysis of open source information, including competitive intelligence, environmental scanning, and issues management; information evaluation and synthesis; role of strategic intelligence in modern organizations.

**Prerequisites:** ISCI 740 or ISCI 748.

**ISCI 775 - Practicum in Organizing and Managing Web Resources (3 Credits)**

Concepts and practices necessary to organize and manage Web resources in libraries and in other information agencies.

**ISCI 776 - Web Technologies for Information Specialists (3 Credits)**

Evaluation and programming of Web technologies and related issues in libraries and in other information agencies.

**Prerequisites:** ISCI 775.

**ISCI 777 - Design and Management of Digital Image Collections (3 Credits)**

This course presents introductory concepts related to the creation, manipulation, and implementation of visual collections in various online environments. It identifies resources, procedures, and skills needed to successfully design, implement, and manage digital image collections in a collaborative environment.

**Prerequisites:** ISCI 706, passing of ISCI Technology Test.

**ISCI 778 - Seminar in Information Science (3 Credits)**

A critical examination of the principles, trends, and issues of modern information systems design and use.

**Prerequisite or Corequisite:** ISCI 707.

**ISCI 779 - Social Informatics (3 Credits)**

This course examines the design, uses, and effects of information and communication technologies (ICTs) from the standpoint that society and technology mutually shape one another.

**ISCI 780 - Information Networks (3 Credits)**

Identification and evaluation of information networks in libraries and other information agencies. The nature of networks, including hardware and software applications.

**Prerequisites:** ISCI 701, ISCI 707.

**ISCI 781 - Critical Cultural Information Studies (3 Credits)**

Examines how issues of diversity, social justice, race, gender and sexuality are represented in the information professions and will study how these social imperatives affect, and are affected by, information technologies.

**ISCI 782 - Social Justice Storytelling and Advocacy (3 Credits)**

Conceptualize, critique, and reformulate social justice as an outcome while working towards a better understanding of how their social identities and systems of oppression contribute to and/or work against the social justice process.

**ISCI 783 - Disinformation and the Literacy Landscape (3 Credits)**

Addresses the renewed phenomenon of fake news, misinformation/disinformation, and its related concepts; then focuses more explicitly on the affective information behaviors that influence our interactions with information and help us intellectually thrive in a post-truth society.

**ISCI 785 - Leadership and Ethics in Information Security (3 Credits)**

Critical and analytical study of cyber-related leadership, information security, and information policy and ethical issues at the individual, institutional, and international levels.

**ISCI 787 - Seminar in Applied Information Systems for Information Specialists (3 Credits)**

Application, management and evaluation of information systems for libraries and other information agencies, including emerging technical, administrative and management issues related to these systems.

**Prerequisites:** ISCI 707.

**ISCI 788 - Implementing Data and Digital Communications (3 Credits)**

A capstone experience for data and communication students to implement concepts and skills in data analysis learned throughout the program.

**Prerequisites:** C or better in JOUR 709 or ISCI 709.

**Cross-listed course:** JOUR 788

**ISCI 791 - Study Abroad: Great Libraries of the World (3 Credits)**

Discussion and critical examination of selected topics of current international debate regarding information and related technologies. Specific topics to be identified by title. May be repeated three times for a maximum of 9 hours.

**ISCI 794 - Internship in Library and Information Science (3 Credits)**

Supervised field experience in library, media center, or other information agency relevant to student's professional goals.

**Prerequisites:** C or better in ISCI 701 and ISCI 705.

**ISCI 795 - Special Topics in International Information Issues (1-3 Credits)**

Discussion and critical examination of selected topics of current international debate regarding information and related technologies.

Topics vary by title. May be repeated a maximum of 3 times.

**ISCI 796 - Independent Study in Library and Information Science (1-6 Credits)**

Independent study in an area of library and information science relevant to the student's professional goals.

**Prerequisites:** C or better in ISCI 701 and ISCI 705.

**ISCI 797 - Selected Topics in Librarianship and Information Services (1-3 Credits)**

Discussion and investigation of selected topics of current concern to the library and information profession. Specific topics to be identified by title.

**ISCI 798 - Specialist Project Preparation (3-6 Credits)**

Prerequisite: Specialist degree students only. Approval of the appropriate application for specialist project must be submitted early in the semester preceding enrollment.

**ISCI 801 - Theoretical Issues in Library and Information Science (3 Credits)**

Seminar examining a range of issues, theories, and research questions that currently shape thinking and discourse in library and information science.

**ISCI 802 - Research Methods and Design in Information Science (3 Credits)**

Seminar overviewing research methods and design, including quantitative, qualitative, and multi-method approaches.

**ISCI 803 - Information and Society (3 Credits)**

Seminar examining the historical and intellectual foundations of library and information science in relation to the nature and current roles of information organization and information transfer in societies.

**ISCI 804 - Preparation for Academic Careers in Library and Information Science (3 Credits)**

Seminar examining the history, trends, and current status of academic careers in library and information science, emphasizing knowledge and skills needed for successful teaching, scholarship, and service.

**ISCI 805 - Information Policy and Ethics (3 Credits)**

Seminar in the critical and analytical study of information policy and ethical issues at the individual, institutional, and international levels. Not auditable.

**ISCI 806 - Communication Processes and Information-Seeking Behavior (3 Credits)**

Seminar examining the characteristics of communication, human information interaction, and information-seeking behavior, with emphasis on social network models, and the relationship between information-seeking behaviors and the design of communication and information systems and services. Not auditable.

**ISCI 809 - Planning and Evaluating Colloquia In Library and Information Science (1 Credit)**

Involves students in planning, managing, and evaluating colloquia, including recruiting speakers, scheduling venues, attracting audiences, conducting the sessions, and evaluating the results. May be repeated up to three times for credit.

**ISCI 810 - Human Information Interactions and Cultural Institutions (3 Credits)**

Explores libraries and other cultural institutions as lifelong educational environments where complex human interactions take place. Over the past two years, the promising intersection of cultural organizations has been a topic of strong interest to practitioners and scholars associated with these institutions. This course introduces the interdisciplinary framework, social perspectives, and research methods required to development an understanding of this intersection, the changes that will be required as new technologies alter the way that people engage with these institutions, and the challenges that have begun to emerge as their boundaries become less defined. This type of interdisciplinary framework is needed to address these topics and address both the human information needs that impel cultural institutions and the steps and strategies by which these needs may be recognized and resolved in these information rich environments.

**ISCI 811 - Technologies in Cultural Institutions (3 Credits)**

This course provides an opportunity for doctoral students to explore the issues associated with the implementation, evaluation and management of various technologies found in cultural institutions. Students will gain practical experience working with different technologies through class demonstrations and will be exposed to different technical environments via class field trips.

**ISCI 899 - Dissertation Preparation (1-12 Credits)**