



INDIANA UNIVERSITY

University Graduate School  
2009-2010  
Academic Bulletin

## Library and Information Science

### School of Library and Information Science Bloomington

#### Dean

Rudy Professor Blaise Cronin\*

#### Departmental E-mail

[slis@indiana.edu](mailto:slis@indiana.edu)

#### Departmental URL

[www.slis.indiana.edu](http://www.slis.indiana.edu)

### Graduate Faculty

(An asterisk [\*] denotes membership in the University Graduate School faculty with the endorsement to direct doctoral dissertations.)

#### Distinguished Professors

David Kaser\* (Emeritus), Herbert White\* (Emeritus)

#### Professors

Katy Börner\*, Blaise Cronin\*, Stephen Harter\* (Emeritus), Susan C. Herring\*, Thomas Nisonger\* (Emeritus), Debora Shaw\*

#### Associate Professors

Josefa Abrera\* (Emerita), Ronald E. Day\*, Hamid Ekbia, Shirley Fitzgibbons\* (Emerita), Noriko Hara, Elin K. Jacob\*, John C. Pao-lillo\*, Alice Robbin\*, Howard S. Rosenbaum\*, Judith Serebnick\* (Emerita)

#### Assistant Professors

Marian L. Armstrong (Emerita), Ying Ding, Pnina Shachaf, John Walsh, Kiduk Yang\*

#### Adjunct Faculty and Visiting Scholars

\*see [www.slis.indiana.edu](http://www.slis.indiana.edu) for complete list - including:

Michael McRobbie\*, Kalpana Shankar\*

#### Senior Fellow

Charles H. Davis

#### Graduate Advisor

Director of Doctoral Program Elin K. Jacob\*, LI 011, (812) 855-4671

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### Degrees Offered

Doctor of Philosophy, and, jointly with other academic programs, Master of Library Science and Doctor of Jurisprudence; Master of Information Science and master's degrees in folklore and ethnomusicology, public affairs, and Russian and East European studies; Master of Library Science and master's degree in African American and African Diaspora Studies, African Studies, art history, comparative literature, English, folklore and ethnomusicology, history, history and philosophy of science, journalism, Latin American and Caribbean studies, music theory or musicology, public affairs, and Russian and East European studies. The School of Library and Information Science offers the Specialist in Library and Information Science, the Master of Library Science, the Master of Information Science, a dual MIS/MLS, the Master of Library Science with specializations in African studies librarianship, archives and records management, library technology management, music librarianship, rare books and manuscripts librarianship, and the Master of Library Science or Master of Information Science with specializations in chemical information and in digital libraries degrees. For further information, see the School of Library and Information Science Bulletin.

### Graduate Certificate in Information Architecture

#### Admission Requirements:

Applicants must meet requirements for admission to the master's degree programs in the School of Library and Information Science: [www.slis.indiana.edu](http://www.slis.indiana.edu)

#### Course Requirements

Students must complete 18 graduate credit hours; credits counted toward another degree may not be applied toward the Certificate. Required courses: S515 Information Architecture (3 cr.); S556 Systems Analysis and Design (3 cr.); S512 Information System Design (3 cr.); S633 Indexing (3 cr.); S516 Human Computer Interaction (3 cr.); S690 Capstone in Information Architecture (3 cr.)

### Special School Requirements

(See also general University Graduate School requirements.)

### Dual Master's Degree Programs with the University Graduate School

African American and African Diaspora Studies (M.A.) and M.L.S.

African Studies (M.A.) and M.L.S.

Art History (M.A.) and M.L.S.

Comparative Literature (M.A.) and M.L.S.  
English (M.A.) and M.L.S.  
Folklore and Ethnomusicology (M.A.) and M.I.S.  
Folklore and Ethnomusicology (M.A.) and M.L.S.  
History (M.A.) and M.L.S.  
History and Philosophy of Science (M.A.) and M.L.S.  
Journalism (M.A.) and M.L.S.  
Latin American and Caribbean Studies (M.A.) and M.L.S.  
Musicology or Music Theory (M.A.) and M.L.S.  
Russian and East European Studies (M.A.) and M.I.S.  
Russian and East European Studies (M.A.) and M.L.S.

#### **African American and African Diaspora Studies (M.A.) and Master of Library Science (M.L.S.)**

The dual M.A./M.L.S. program requires completion of a minimum of 58 credit hours of graduate course work. (The degrees, if completed separately, would require 68 credit hours.) Students must apply for admission to the master's programs of both the School of Library and Information Science and the Department of African American and African Diaspora Studies and meet the admissions criteria established for each. The two degrees must be awarded at the same time.

In addition to the SLIS S401 pre-requisite, the requirements for the Master of Library Science (30 hours) are as follows:

1. M.L.S. Foundation courses (15 cr.).
2. Either S521 Humanities Information or S522 Social Sciences Information (3 cr.).
3. SLIS elective courses (12 cr.).

A minimum of 28 credit hours is required in the Department of African American and African Diaspora Studies for the Master of Arts degree. See the University Graduate School Bulletin for specific requirements.

#### **African Studies (M.A.) and Master of Library Science (M.L.S.)**

The dual M.A./M.L.S. program requires completion of a minimum of 56 credit hours of graduate course work, rather than the 66 credit hours required if the two degrees are earned separately. Students must apply for admission to the masters programs of both the School of Library and Information Science and the African Studies Program and meet the admissions criteria established for each. The two degrees must be awarded at the same time.

In addition to the SLIS S401 pre-requisite, the requirements for the Master of Library Science (30 hours) are as follows:

1. M.L.S. Foundation courses (15 cr.), with S551 Library Management to fulfill the management and leadership skills requirement.
2. Either S521 Humanities Information or S522 Social Sciences Information (3 cr.).
3. SLIS elective courses (12 cr.).

A minimum of 26 credit hours is required for the Master of Arts degree. Contact the African Studies Program for details.

#### **Art History (M.A.) and Master of Library Science (M.L.S.)**

This program is designed to prepare students for professional library and information specialist positions in fine arts and

related libraries and information centers. The program requires a minimum of 60 credit hours of graduate course work including a comprehensive set of required courses and overlapping electives. Students must apply for admission to the master's programs of both the School of Library and Information Science and the School of Fine Arts/History of Art and meet the admission criteria established for each. The two degrees must be awarded simultaneously.

In addition to the SLIS S401 pre-requisite, the requirements for the Master of Library Science (30 hours) are as follows:

1. M.L.S. Foundation courses (15 credit hours).
2. Other required SLIS courses (9 cr.): S521 Humanities Information, S651 Art Librarianship and S605 Internship in Library and Information Science.
3. SLIS elective courses (6 cr.) chosen from among S533 Online Searching, S532 Information Architecture for the Web, S652 Digital Libraries, or S633 Indexing.

At least 30 credit hours in the School of Fine Arts are required. Course work must include A500, A575, and no fewer than two seminars in two areas. Also required are four lecture courses at the 400 and 500 levels, at least two of which must be in Western art. See specific requirements under Art History in the University Graduate School Bulletin.

#### **Comparative Literature (M.A.) and Master of Library Science (M.L.S.)**

This program prepares candidates for positions in academic, research, and other libraries with a humanities orientation. The total program consists of at least 50 graduate credit hours. Students must apply for admission to the master's programs of both the School of Library and Information Science and the Department of Comparative Literature and meet the admission criteria established for each. The two degrees must be awarded simultaneously.

In addition to the SLIS S401 pre-requisite, the requirements for the Master of Library Science (30 hours) are as follows:

1. M.L.S. Foundation courses (15 credit hours).
2. At least 15 credit hours of SLIS elective courses appropriate to the student's background and interests.

At least 20 graduate credit hours are required in comparative literature course work. The Department of Comparative Literature requires certification in at least two foreign languages, which does not count toward the 20 credit hour total required for the degree. Emphasis in the course work may be in Western literatures, East-West relations studies, Third World literatures, film studies, or studies of the interrelations of the arts (literature, music, the visual arts). For specific requirements see the entry for the Department of Comparative Literature in the University Graduate School Bulletin.

#### **English (M.A.) and Master of Library Science (M.L.S.)**

Study for these two degrees can be combined for a total of 54 credit hours rather than the 66 credit hours required for the two degrees taken separately. Admission to each of the two master's programs is approved separately on the same basis as for applicants not in the dual program. The two degrees must

be awarded simultaneously.

In addition to the SLIS S401 pre-requisite, the requirements for the Master of Library Science (30 hours) are as follows:

1. M.L.S Foundation courses (15 credit hours).
2. SLIS S521 Humanities Information (3 cr.).
3. SLIS elective courses (12 cr.).

A minimum of 24 credit hours is required in the Department of English. All students must fulfill the core requirements as outlined in the English Department's Master of Arts with Concentration in Literature or Special Field Master of Arts degree requirements. No thesis or examination is required for the M.A. in English. The M.A. in English does require reading proficiency in one of the following languages: French, German, Greek, Italian, Latin, Russian, Spanish. Consult the University Graduate School Bulletin for additional details on the M.A. in English.

#### **Folklore and Ethnomusicology (M.A.) and Master of Information Science (M.I.S.)**

Study for these two degrees can be combined for a total of 57 credit hours rather than the 72 credit hours required for the two degrees taken separately. Students take at least 36 graduate credit hours in information science, and at least 21 credit hours in folklore and ethnomusicology. To graduate under the dual-degree option, the two degrees must be awarded simultaneously.

**Master of Information Science** (36 credit hours): 21 credit hours of MIS Foundation courses, 15 credit hours of SLIS elective courses.

**Master of Arts in Folklore and Ethnomusicology** (21 credit hours): consult the Department of Folklore and Ethnomusicology.

Students must apply for admission to the master's programs of both the School of Library and Information Science and the Department of Folklore and Ethnomusicology. Admissions criteria established for each program must be met. For specific M.A. requirements, see the University Graduate School Bulletin.

#### **Folklore and Ethnomusicology (M.A.) and Master of Library Science (M.L.S.)**

Study for these two degrees can be combined for a total of 51 credit hours rather than the 66 credit hours required for the two degrees taken separately. Students take at least 30 graduate credit hours in library and information science, and at least 21 credit hours in folklore and ethnomusicology. To graduate under the dual-degree option, the two degrees must be awarded simultaneously.

**Master of Library Science** (30 credit hours): 15 credit hours of required MLS Foundation courses, plus 15 credit hours of SLIS elective courses. The S401 pre-requisite is also required.

**Master of Arts in Folklore and Ethnomusicology** (21 credits): Consult the Department of Folklore and Ethnomusicology.

Students must apply for admission to the master's programs of both the School of Library and Information Science and the Department of Folklore and Ethnomusicology. Admissions criteria established for each program must be met. For specific M.A.

requirements, see the University Graduate School Bulletin.

#### **History (M.A.) and Master of Library Science (M.L.S.)**

Interest in public history, genealogy, historic preservation, and archives and museum administration creates a demand for professionals with expertise in both historical research and information management. The dual M.L.S./M.A. in history program requires completion of a minimum of 50 credit hours of graduate course work. Students must apply for admission to the master's programs of both the School of Library and Information Science and the Department of History and meet the admission criteria established for each. The two degrees must be awarded simultaneously.

In addition to the SLIS S401 pre-requisite, the requirements for the Master of Library Science (30 hours) are as follows:

1. M.L.S. Foundation courses (15 credit hours).
2. Other required SLIS courses (9 cr.): S581 or S584, S605, and S521 or S522.
3. SLIS elective courses (6 cr.).

A minimum of 20 credit hours is required in the Department of History for the Master of Arts degree. For specific requirements, see the entry for the Department of History in the University Graduate School Bulletin.

#### **History and Philosophy of Science (M.A.) and Master of Library Science (M.L.S.)**

This program meets the growing demand for information professionals with a scientific academic specialty and prepares students for a variety of positions in library, research, and archival settings. The program consists of a minimum of 51 credit hours for both degrees. Students must apply for admission to the master's programs of both the School of Library and Information Science and the Department of History and Philosophy of Science and meet the admission criteria established for each. The two degrees must be awarded simultaneously.

In addition to the SLIS S401 pre-requisite, students must complete (30 credits):

1. The M.L.S. Foundation courses (15 credit hours).
2. Other required SLIS courses (9 cr.): S581 Archives and Records Management or S584 Manuscripts, S523 Science and Technology Information, and S605 Internship in Library and Information Science.
3. SLIS elective courses (6 cr.).

A minimum of 21 credit hours is required in the Department of History and Philosophy of Science for the Master of Arts degree. For specific requirements, see the University Graduate School Bulletin.

#### **Journalism (M.A.) and Master of Library Science (M.L.S.)**

The dual M.L.S./M.A. in journalism program provides excellent preparation for professional library and information specialist positions in news media and in corporate, academic, and public libraries. The program consists of a minimum of 51 credit hours for both degrees. Students must apply for admission to the master's programs of both the School of Library and Information Science and the School of Journalism and meet the

admission criteria established for each. The two degrees must be awarded simultaneously.

In addition to the SLIS S401 pre-requisite, students must complete (30 credits):

1. The M.L.S. Foundation courses (15 credit hours).
2. Other required SLIS courses (9 cr.): S533 Online Searching, S525 Government Information, and either S521 Humanities Information or S522 Social Science Information.
3. SLIS elective courses (6 cr.).

A minimum of 21 credit hours is required in journalism. For specific requirements contact the School of Journalism, and consult the University Graduate School Bulletin.

### **Latin American and Caribbean Studies (M.A.) and Master of Library Science (M.L.S.)**

The School of Library and Information Science and the Center for Latin American and Caribbean Studies jointly offer a three-year program that qualifies students for two master's degrees. Study for these two degrees in the dual program (M.A./M.L.S.) can be completed in a total of 51 credit hours rather than the 66 credit hours that would otherwise be required for the two degrees taken separately. Students must apply for admission to the master's programs of both the School of Library and Information Science and the Latin American and Caribbean Studies Department and meet the admissions criteria established for each. The two degrees must be awarded simultaneously.

In addition to the SLIS S401 pre-requisite, students must complete (30 credits):

1. The M.L.S. Foundation courses (15 credit hours).
2. Other required SLIS courses (9 cr.): S533 Online Searching, S605 Internship in Library and Information Science (internship under the supervision of the Latin American bibliographer), and S629 Topics in Information Sources and Services (Topic: Latin American Bibliography).
3. SLIS elective courses (6 cr.).

Students take 21 credit hours of advanced courses relating to Latin American and Caribbean Studies (LTAM). The interdisciplinary seminar LTAM S501 (3 credits) must be taken, together with 18 credit hours in other LTAM courses or those Latin American and Caribbean Studies courses that are cross-listed with other departments. All other requirements for completion of the Latin American Studies M.A., including language proficiency and thesis or oral examination, remain as listed in the University Graduate School Bulletin.

### **Musicology or Music Theory (M.A.) and Master of Library Science (M.L.S.)**

The dual-degree program combines an M.L.S. with an M.A. in musicology or an M.A. or M.M. in music theory. It combines the advantages of top-ranked graduate programs in library and information science and in music, and the librarians and professional staff of one of the country's largest music libraries. Through enrollment in these curricula, students may earn two master's degrees by a combination of work in the School of Library and Information Science (SLIS) and the School of Music amounting to approximately 60 credit hours (6 credits are shared between the two degrees). Applicants are expected

to hold at least a bachelor's degree in music from an accredited four-year collegiate institution. For this program, students must apply for admission to both schools and the Music Librarianship Specialization and meet the admission criteria established for all three. (The admissions committee for the specialization consists of the IU music librarians.) Degrees from both schools must be awarded simultaneously.

In addition to the SLIS S401 pre-requisite, students must complete (30 credits):

1. The M.L.S. Foundation courses (15 credit hours).
2. MUS M539 Introduction to Music Bibliography (3 cr.).
3. SLIS S605 Internship in Library and Information Science (6 cr.) (P: M539, S504). Two 3 credit internships in one or two areas related to music librarianship (e.g., music cataloging, music collection development, music reference, music technology), approved by the coordinator of the Music Librarianship Specialization.
4. SLIS S655 Music Librarianship (3 cr.) (P: M539, P or C: S504 or consent of instructor).
5. SLIS elective courses (3 cr.).

For detailed information regarding degrees offered exclusively or jointly by the Jacobs School of Music and the School of Library and Information Science, also see their respective bulletins.

### **Russian and East European Studies (M.A.) and Master of Information Science (M.I.S.)**

Study for the two degrees can be combined for a total of 60 credit hours rather than the 72 credit hours required for the two degrees taken separately.

Requirements for the Master of Information Science degree are as follows:

1. Completion of SLIS M.I.S. Foundation course requirements (21 credit hours).
2. SLIS electives (15 cr.), not including SLIS S603 and REEI R620 (SLIS S629), which are considered part of the Russian and East European Studies degree, chosen in consultation with the advisor, to bring the total of credit hours to 36.

Students take 24 credit hours in Russian and East European Studies, including R600, R601, R620, four area studies courses (one each from the social science group, the historical/geographical group, the sociocultural group, and the literature group), SLIS S605 Internship in Library and Information Science (in an area pertinent to REEI), and complete all other requirements for the Russian and East European Studies M.A., including the language proficiency exam, M.A. essay, and oral defense.

Application for admission to the dual M.A./M.I.S. degree program must be made to the School of Library and Information Science for study toward the Master of Information Science and to the Russian and East European Institute for study toward the Master of Arts degree. Applicants must be accepted by both degree programs. The student must select an M.A. essay committee of three faculty members representing both REEI and the School of Library and Information Science. Both



degrees will be awarded simultaneously. Consult the University Graduate School Bulletin for REEI details.

### **Russian and East European Studies (M.A.) and Master of Library Science (M.L.S.)**

Study for the two degrees can be combined for a total of 54 credit hours rather than the 66 credit hours required for the two degrees taken separately.

In addition to the SLIS S401 pre-requisite, students must complete (30 credits):

1. The M.L.S. Foundation courses (15 credit hours).
2. SLIS electives (15 cr.), not including SLIS S605 and REEI R620 (SLIS S629), which are considered part of the Russian and East European Studies degree, chosen in consultation with the advisor, to bring the total of credit hours to 30.

Students take 24 credit hours in Russian and East European Studies, including R600, R601, R620, four area studies courses (one each from the social science group, the historical/geographical group, the sociocultural group, and the literature group), SLIS S605 – “Internship in Library and Information Science” (in an area pertinent to REEI), and complete all other requirements for the Russian and East European Studies M.A., including the language proficiency exam, M.A. essay, and oral defense.

Application for admission to the dual M.A./M.L.S. degree program must be made to the School of Library and Information Science for study toward the Master of Library Science and to the Russian and East European Institute for study toward the Master of Arts degree. Applicants must be accepted by both degree programs. The student must select an M.A. essay committee of three faculty members representing both REEI and the School of Library and Information Science. Both degrees will be awarded simultaneously. Consult the University Graduate School Bulletin for REEI details.

## **Doctor of Philosophy Degree**

### **Admission Requirements**

Bachelor’s degree and minimum GRE scores (V=500, Q=500, A=4.5) are required, but since entry is competitive, higher scores are usually needed, as well as an undergraduate grade point average of at least 3.2. In addition to a personal statement of 800-1,000 words, we require a single-authored writing sample. A published article, a technical white paper, a grant proposal, or a paper submitted to fulfill course requirements are examples of papers that are acceptable. Questions about the writing sample should be directed to the program director. We strongly encourage school visits.

### **Course Requirements**

A total of 90 credit hours, including S701, S702, S703, S710, S790, and S799 dissertation (15 credit hours).

### **Major**

Any area of information science approved by the student’s advisory committee.

### **Minor**

A total of 12 to 15 credit hours.

### **Research Skills**

Basic requirement: introductory statistics course and a second graduate course in statistics or in research design. The research-skill requirement may then be completed by passing, with a grade of B or higher, a third graduate course in statistics or in research design.

### **Qualifying Examination**

Written paper and oral presentation, over the field of concentration, emphasizing theory and research methods. Examination over the minor field at the discretion of the minor-field department.

### **Final Examination**

Confined to dissertation and related matters.

### **Ph.D. Minor in Information Science**

The School of Library and Information Science offers an outside minor through the University Graduate School for Ph.D. students in other fields. Ordinarily, students will take from 12 to 15 credit hours of graduate credit in fulfilling this option (minimum: 12 credit hours).

## **Courses**

For course descriptions, see the School of Library and Information Science Bulletin.

**S501 Reference (3 cr.)**

**S502 Collection Development and Management (3 cr.)**

**S503 Representation and Organization (3 cr.)**

**S504 Cataloging (3 cr.)**

**S505 Evaluation of Resources and Services (3 cr.)**

**S506 Introduction to Research (3 cr.)**

**S510 Introduction to Information Science (3 cr.)**

**S511 Database Design (3 cr.)**

**S512 Information Systems Design (3 cr.)**

**S513 Organizational Informatics (3 cr.)**

**S514 Computerization in Society (3 cr.)**

**S515 Information Architecture (3 cr.)**

**S516 Human-Computer Interaction (3 cr.)**

**S517 Web Programming (3 cr.)**

**S518 Communication in Electronic Environments (3 cr.)**

**S519 Evaluation of Information Systems (3 cr.)**

**S520 Information Seeking and Use (3 cr.)**

**S521 Humanities Information (3 cr.)**

**S522 Social Sciences Information (3 cr.)**

**S523 Science and Technology Information (3 cr.)**

**S524 Adult Readers Advisory (3 cr.)**

**S525 Government Information (3 cr.)**

**S526 Business Information (3 cr.)**

**S531 Subject Access Systems (3 cr.)**

**S532 Information Architecture for the Web (3 cr.)**

**S533 Online Searching (3 cr.)**

**S534 Information Retrieval: Theory and Practice (3 cr.)**

**S541 Information Policy (3 cr.)**

**S542 International Information Issues (3 cr.)**

**S543 Computer-Mediated Communication (3 cr.)**

S544 Gender and Computerization (3 cr.)  
 S550 Perspectives on Librarianship (3 cr.)  
 S551 Library Management (3 cr.)  
 S552 Academic Library Management (3 cr.)  
 S553 Public Library Management (3 cr.)  
 S554 Library Systems (3 cr.)  
 S555 Strategic Intelligence (3 cr.)  
 S556 Systems Analysis and Design (3 cr.)  
 S561 User Interface Design for Information Systems (3 cr.)  
 S571 Materials for Youth (3 cr.)  
 S572 Youth Services (3 cr.)  
 S573 Education of Information Users (3 cr.)  
 S574 Information Inquiry for School Teachers (3 cr.)  
 S580 History of Libraries (3 cr.)  
 S581 Archives and Records Management (3 cr.)  
 S582 Preservation (3 cr.)  
 S583 Rare Book Librarianship (3 cr.)  
 S584 Manuscripts (3 cr.)  
 S585 Records Management (3 cr.)  
 S601 Directed Readings (1-6 cr.)  
 S602 Directed Research (1-6 cr.)  
 S603 Workshop in Library and Information Science (cr. arr.)  
 S604 Topics in Library and Information Science (1-4 cr.)  
 S605 Internship (2-6 cr.)  
 S621 Audio and Video Sources (3 cr.)  
 S622 Resources and Services for People with Disabilities (3 cr.)  
 S623 Genealogy and Local History (3 cr.)  
 S629 Topics in Information Sources and Services (3 cr.)  
 S631 Advanced Cataloging (3 cr.)  
 S632 Technical Services (3 cr.)  
 S633 Indexing (3 cr.)  
 S634 Metadata (3 cr.)  
 S635 Ontologies (3 cr.)  
 S636 Semantic Web (3 cr.)  
 S637 Information Visualization (3 cr.)  
 S640 Seminar in Intellectual Freedom (3 cr.)  
 S641 Computer-Mediated Discourse Analysis (3 cr.)  
 S642 Content Analysis for the Web (3 cr.)  
 S643 The Information Industry (1-3 cr.)  
 S650 Library Philanthropy (3 cr.)  
 S651 Art Librarianship (3 cr.)  
 S652 Digital Libraries (3 cr.)  
 S653 Health Sciences Librarianship (3 cr.)  
 S654 Law Librarianship (3 cr.)  
 S655 Music Librarianship (3 cr.)  
 S656 Information Technology Standardization (3 cr.)  
 S661 Concepts and Contemporary Issues in Human-Computer Interaction (3 cr.)  
 S662 Information Design for Collaborative Information Spaces (3 cr.)  
 S671 School Media (3 cr.)  
 S672 Seminar on Literature for Youth (3 cr.)  
 S680 The Book to 1450 (3 cr.)  
 S681 The Book 1450 to the Present (3 cr.)  
 S683 Reference Sources for Rare Books (3 cr.)  
 S684 Descriptive Bibliography (3 cr.)  
 S685 Electronic Records Management (3 cr.)  
 S690 Capstone in Information Architecture (3 cr.)  
 S701 Introduction to Doctoral Research in Information Science (3 cr.)

S702 Doctoral Research Practicum I (2 cr.)  
 S703 Doctoral Research Practicum II (2 cr.)  
 S706 Introduction to Research (3 cr.)  
 S710 Doctoral Research Practicum III (3 cr.)  
 S763 Research Problems and Methods in Information Science (3 cr.)  
 S764 Seminar in Information Science (3 cr.)  
 S765 Doctoral Research in Information Science (1-6 cr.)  
 S790 Dissertation Proposal in Information Science (3 cr.)  
 S799 Ph.D. Thesis (cr. arr.)\*

## Approved Master's Electives

### Computer Science

A538 Network Technologies and Administration (3 cr.)

### Fine Arts

A575 Research Sources in Art History (2 cr.)

### Graduate

G732 Bibliography of Sub-Saharan Africa (3 cr.)

### Music

M539 Introduction to Music Bibliography (3 cr.)