DEPARTMENT OF LIBRARY SCIENCE AND TECHNOLOGY

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Mission

The Department of Library Science and Technology provides professionals with the knowledge, skills, experiences, and dispositions necessary to serve diverse populations across the country and globally. The Department of Library Science and Technology also seeks to educate leaders who will transform learning.

- Ed.D. in Instructional Systems Design and Technology (http://catalog.shsu.edu/archives/2021-2022/graduate-and-professional/college-departments/education/library-science-and-technology/instructional-systems-design-and-technology-edd/)
- Master of Education in Instructional Systems Design and Technology (http://catalog.shsu.edu/archives/2021-2022/graduate-and-professional/college-departments/education/library-science-and-technology/instructional-systems-design-and-technology-med/)
- Master of Library Science (http://catalog.shsu.edu/archives/2021-2022/graduate-and-professional/college-departments/education/library-science-and-technology/library-science-mls/)
- Graduate Certificate in Effective Online Instruction (http://catalog.shsu.edu/archives/2021-2022/graduate-and-professional/college-departments/education/library-science-and-technology/effective-online-instruction-certificate/)
- School Librarian Certification (http://catalog.shsu.edu/archives/2021-2022/graduate-and-professional/college-departments/education/library-science-and-technology/school-librarian-certification/)

Instructional Systems Design Technology

ISDT 5088. Special Topics Instructnl Tech. 1-3 Hours.
This course presents the instructional, technical and management issues evident in instruction and learning offered via distance delivery systems. Various delivery systems and technology tools within those systems will be studied and critiqued to evaluate the effectiveness of each. The course highlights effective online course design and delivery with an attention to the learning resources and strategies evident in successful online teaching and learning. Variable Credit (1 to 3).

ISDT 5319. Critical Anlysis-Instruc Sftwr. 3 Hours.
Students examine the instructional and educational value of commercially available software for the pre-k through 12th grade and enterprises. Students build upon a foundation of instructional theory to identify appropriate characteristics of instructional software and explore the effectiveness of instructional software in the classroom. This course may not be counted toward the M.S. in Computer and Information Science, Information Assurance and Security or Digital Forensics.

ISDT 5336. Educational Multimedia. 3 Hours.
Students explore the uses of multimedia in the classroom and extend the teachers? skill base in the development of appropriate multimedia examples to support and enhance the middle school and high school curricula. Throughout the course, students gain experience in still and motion digital editing, and audio and animation production. This course may not be counted toward the M.S. in Computer and Information Science, Information Assurance and Security or Digital Forensics.
Prerequisite: Graduate standing.

ISDT 5337. Desgn Instrctnl Mat For Web. 3 Hours.
Students examine the development of websites for instructional purposes. Students explore the systematic design of instruction, a process that examines the development of appropriate course goals, the identification of measurable objectives that meet those goals, and intelligent approaches to assessing student performance. This design approach is then applied to the development of web-based materials, providing opportunities for skills acquisition in a variety of multimedia applications and their incorporation into a website. The course culminates in the development of a geometry web site for use in schools and businesses. This course may not be counted toward the M.S. in Computer and Information Science, Information Assurance and Security or Digital Forensics.

ISDT 5338. Dev of Tech Infrastructre-Schl. 3 Hours.
This course examines the funding, design and implementation processes required to establish and realize a coherent technology acquisition and management strategy.

ISDT 5363. The Role of Technology Liaison. 3 Hours.
This course is designed to assist the technology liaison in learning how to facilitate classroom teachers throughout the instructional process, supported by technology. Attention is given to the foundation of social, ethical, legal and human issues of technology use in PK-12.

ISDT 5365. Technology And Cognition. 3 Hours.
Students learn to incorporate technology into teaching and learning in relation to the brain development in school-age children, emphasizing instructional techniques for enhancing learner's cognitive development through the use of technology. Students design advanced technological application for instruction, based upon best practices in technology and cognition.

ISDT 5367. Rdgs&Trends In Instructnl Tech. 3 Hours.
Candidates are acquainted with the critical writings and ideas of prominent practitioners, researchers, and theorists in instructional technology with a focus on understanding the trends and issues pertaining to a scholarly study of integrating technology into teaching and learning. Candidates evaluate the best instructional technology strategies evident in the literature and in practice in PK-16 education and industry settings.

ISDT 5369. Practicm-Technology Facilitatn. 3 Hours.
Students are provided with a field-based practicum in a school setting, including a study of the daily duties and responsibilities of a technology facilitator.

ISDT 6335. Mgmt Applic Analysis I. 3 Hours.
Students apply systematic and rational approaches to the analysis, evaluation, and implementation of course management systems from the perspective of pedagogical success, user friendliness, and cost effectiveness.

ISDT 6351. Distance Learning I. 3 Hours.
Students explore the instructional, technical, and management issues in distance education delivery systems. Effective online course design and delivery of teaching and learning resources and strategies are examined.

ISDT 6389. Independent Study. 3 Hours.
Students study individually chosen topics under the supervision of a faculty member. The specific topic is selected from current trends and future research directions, not covered in the Instructional Systems and Design Technology (ISDT) graduate curriculum.
Prerequisite: Consent of instructor and approval of department chair.

ISDT 7315. Educational Network Design. 3 Hours.
Students examine the technical, environmental, and policy issues involved in the development of educational technology infrastructures, focusing on network design and evaluation.

ISDT 7325. Technology Sustainability. 3 Hours.
Students examine the potential and the challenges associated with initiating and maintaining green and cost-efficient technology infrastructures based on environmental awareness initiatives.

ISDT 7335. Mgmt Application Analysis. 3 Hours.
Students are provided a systematic and rational approach to the analysis, evaluation, and implementation of course management systems from the standpoints of pedagogical success, user friendliness, and cost effectiveness.

ISDT 7336. Instructional Design Assmt. 3 Hours.
Students apply instructional design theories to the development, analysis, evaluation, and assessment of various digital instructional designs.

ISDT 7350. Issues in Instructional Tech. 3 Hours.
Students examine current social, economic, and ethical issues surrounding the acquisition and implementation of technology in instruction. An emphasis is placed on the research of past, present, and future applications of technology in instruction, and applying theory to practice. Theoretical perspectives informing future research in instructional technology are also considered.
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7351. Distance Learning II. 3 Hours.
Students explore the instructional, technical, and management issues evident in instruction and learning offered via distance delivery systems. Various delivery systems and technology tools within those systems are studied and critiqued to evaluate their effectiveness. The course highlights effective online course design and delivery with an attention to the learning resources and strategies evident in successful online teaching and learning.

ISDT 7352. Instructional Planning. 3 Hours.
Student are provided with strategies to assist instructional personnel to plan and use digital-age tools.
Prerequisite: Admission into the Ed.D. Instructional Technology program .

ISDT 7353. Professional Development. 3 Hours.
Students identify technology development needs, research current practices, and design and implement a professional development sequence with support materials.
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7354. Leadership in Technology Admin. 3 Hours.
Students focus on decision-making for effective and efficient implementation of instructional and productivity technologies, to include consideration of policy, current research, emerging technologies, learning needs, and available resources.

ISDT 7355. Program Evaluation. 3 Hours.
Students evaluate professional learning programs that integrate technology effectively into instructional practices.
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7372. Statistical Methods. 3 Hours.
This applied foundational statistics course is designed to develop the requisite level of critical thinking for conducting valid quantitative research. Doctoral students will learn to compute and meaningfully interpret descriptive and inferential statistics, including tests of relationship and difference.

ISDT 7374. Qualitative Analysis. 3 Hours.
Students develop qualitative research skills by engaging in a substantial field-based instructional technology research project.
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7375. Multivariate Analysis and Learning Analytics. 3 Hours.
Students analyze multivariate data and educational big data related to the fields of instructional technology and learning analytics, and interpret the results of the analyses. The analysis methods include advanced statistical approaches and computational techniques.
Prerequisite: ISDT 7372.

ISDT 7380. Inst Tech Research Methods. 3 Hours.
Students focus on the research questions, approaches, and measures typically employed by instructional technology researchers.

ISDT 7385. Doctoral Internship. 3 Hours.
Under the leadership of a qualified mentor, students research, electronically document, and reflect on their study as they examine the future of technology, strategies for dynamic decision-making, effective and collaborative online communication, equitable access to technology resources for all learners, and community-based learning. At the conclusion of the 150 clock hour internship, students present an online documentary of their internship experiences.
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7386. Special Topics. 3 Hours.
Students study topic(s) that vary based on student-cohort career interests or needs and semester offered. The topics covered are related to Instructional Systems Design and Technology (ISDT) when topics of special interest from those covered elsewhere in the curriculum.

ISDT 7388. Doctoral Field Studies. 3 Hours.
Students independently administer an organizational instructional technology needs-analysis. Based on the identified needs of the organization, the student then plans, implements, assesses, and modifies an instructional leadership project/case study to address identified needs.
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7389. Independent Study. 3 Hours.
Students study individually chosen topics under the supervision of a faculty member. The specific topic is selected from current trends and future research directions, not covered in the Instructional Systems and Design Technology (ISDT) graduate curriculum.
Prerequisite: Consent of instructor and approval of department chair.

ISDT 7391. Application of Research. 3 Hours.
Students develop a dissertation proposal.
Prerequisite: 45 hours of coursework required for the Ed.D.

ISDT 8333. Doctoral Dissertation. 3 Hours.
The culmination of doctoral study resulting in a dissertation that addresses key topics in Instructional Technology. An original investigation is planned, executed, and defended.
Prerequisite: Successful completion of the dissertation proposal defense.

Library Science

LSSL 5087. Special Topics in Library Sci. 1-3 Hours.
Students examine selected current topics in school libraries. Students are to encourage to make thoughtful, educated decisions related to the topics. Variable Credit (1-3).

LSSL 5088. Special Topics In School Libra. 3 Hours.

LSSL 5089. Ind Study School Librarianship. 1-3 Hours.

LSSL 5330. Collection Development. 3 Hours.
Students are introduced to principles of selection of library materials and procedures involved in building collections for school libraries, which includes latest technological developments, research theories, and site-based applications. Required for certification and MLS.

LSSL 5332. Organization of Collections I. 3 Hours.
Students are introduced to the principles of descriptive cataloging, classification, and subject analysis using the latest editions of the Resource Description and Access (RDA), the Dewey Decimal Classification, Library of Congress and Sears subject headings. Focus is placed on the broad-based use of the MARC format. Students are provided with an overview of various types of bibliographic control, technical services in libraries and processing centers, and commercial and shared cataloging utilities. Required for certification and MLS.

LSSL 5334. Infor Services & Resources I. 3 Hours.
Students are introduced to skills, techniques, and the philosophy of the reference process with emphasis on the interview and strategies. Students examine and discuss basic reference tools using specific evaluative criteria as well as analyze library systems, networks, automated databases, the Internet, and other digital searching techniques. Required for certification and MLS.

LSSL 5337. School Library Administration. 3 Hours.
Students study planning, organizing, policymaking, staffing, budgeting, facilities planning, decision-making, and services. An emphasis is placed on the study of standards, trends, services, research, and evaluation of the library. Required for certification and MLS.
Prerequisite: LSSL 5330 and LSSL 5332.

LSSL 5360. Literature For Children. 3 Hours.
Students are acquainted with the selection, critical analysis, and historical development of literature for children. Emphasis is placed on selecting recreational and informational materials for children reflecting our multicultural society; identifying techniques, activities, and strategies that motivate children to read and respond to literature; and developing critical abilities for evaluating literature for children. Required for certification and MLS.

LSSL 5361. Cur Tr In Mat/Chld & Yng Adlt. 3 Hours.
Student examine recent trends in materials for children and young adults, with an emphasis placed on multicultural materials for children and young adults. Elective.
Prerequisite: LSSL 5360 and LSSL 5385.

LSSL 5363. Preschoolers and the Library. 3 Hours.
Graduate students are acquainted with the historical development, critical analysis, and selection of literature, and related materials appropriate for preschool children. An emphasis is placed on techniques, activities, and strategies that meet the reading and learning needs and interests of these children. Cooperation with public libraries and librarians, as well as other family literacy stakeholders, is a component of this course.

LSSL 5364. Infor Services & Resources II. 3 Hours.
Students study reference materials and services on a specialized level and modes of searching, including online and laser optical techniques; develop expertise in solving reference problems through role playing, case studies, etc., and analyze the latest trends and research in reference methods and technology, (e.g., the Internet and networking). In addition, students cover grantsmanship and proposal writing to secure funding for information resources. Elective.
Prerequisite: LSSL 5330, LSSL 5334, and LSSL 5360.

LSSL 5366. Library Internship. 3 Hours.
Students are provided with a supervised practice in a school library, which incorporates seminars, conferences, journals, and evaluation. Required for certification and MLS.
Prerequisite: LSSL 5330, LSSL 5332, LSSL 5334, LSSL 5337, LSSL 5360, LSSL 5385, and LSSL 5391.

LSSL 5367. Research Design & Methodology. 3 Hours.
Students are introduced to research methods, project designs, and data-gathering instruments pertinent to libraries. Students learn to apply research techniques relevant to school libraries. An emphasis is placed on the development of a research or grant proposal. Required for MLS.
Prerequisite: LSSL 5337.

LSSL 5368. Lib Srvs Prg Child Yng Adults. 3 Hours.
Student study programming children and young adult services, including promotional activities, storytelling, book talks, reading guidance, library skills and instruction, innovative projects, and informal library use. In addition, students are introduced to trends and evaluation of research in the area. Elective.
Prerequisite: LSSL 5360 and LSSL 5385.

LSSL 5370. School Librarianship. 3 Hours.
Students are introduced to the design and development of curriculum that utilizes a systematic approach to instruction. An emphasis is placed on explicitly stated objectives, appropriate teaching strategies, and production of materials to facilitate achievement of goals using the latest in instructional technologies, including multimedia. Required for certification and MLS.

LSSL 5376. Field Research in Library Science. 3 Hours.
Graduate candidates are provided an opportunity for in-depth field study of a problem or topic conducted on-site at distinguished libraries or museums. Independent research in a candidate's area of specialization is conducted. The required research project culminates in a scholarly written paper and a poster session presentation. Additionally, candidates participate in on-site experiences and attend presentations unique to the course location.
Prerequisite: A written research proposal is required in advance in order to determine that project is suitable.

LSSL 5380. Masters Seminar. 3 Hours.
Students engage in an in-depth study of specialized subjects; may be repeated as topics vary. Examples of topics may include: Multicultural literature; eBooks and audiobooks, and other variations in materials; nonfiction for children and young adults. Elective.
Prerequisite: Appropriate required courses and approval of the Department Chair.

LSSL 5385. Lit For Young Adults. 3 Hours.
Students are acquainted with the selection, critical analysis, and historical development of literature for young adults. Emphasis is placed on selecting recreational and informational materials for young adults that reflect our multicultural society; identifying techniques, activities and strategies that motivate young adults to read and respond to literature; and developing critical abilities for evaluating literature for young adults. Required for certification and MLS.
Prerequisite: LSSL 5360.

LSSL 5391. Dig Tech for the Schl Librar. 3 Hours.
Students are introduced to the Internet and digital technology for school librarians. Some of the topics covered may include evaluation of digital resources, various search tools, and a variety of communication tools. In addition, students explore ethical issues related to the responsible use of digital technology, including a wide variety of curriculum connections. Required for certification and MLS.

LSSL 5393. Hist Dev Of Lit For Children. 3 Hours.
Students examine the historical development of literature written specifically for children as well as trace the history from the earliest books for children to current trends and issues in the field. Elective.
Prerequisite: LSSL 5360.

LSSL 5396. Computer Sci App Librarianship. 3 Hours.
Students examine the history and status of automated library services, including the international standards, hardware, and commercial software available to support cataloging, circulation, online catalogs, reference services, and administrative tasks. Required for MLS.
Prerequisite: Complete 12 credit hours of 5000 - 7000 LSSL coursework.

LSSL 7088. Special Topics in Schl Lib Lea. 3 Hours.

LSSL 7089. Independent Study in School Librarianship. 1-3 Hours.
Students engage in independent research based on a submitted research proposal. Elective.
Prerequisite: Requires approval of Department Chair, LSSL 5360 and LSSL 5370.

LSSL 7337. Admn/Ldrshp Iss in Sch Librshp. 3 Hours.
Students focus on issues related to the responsibilities of program directors of library media in school districts. This course is one of the four courses that comprise a Library Science Cognate. Candidates conduct research and make inquiries into the development of effective strategies for planning and implementing organizational change in school libraries.
Prerequisite: Admission to Educational Leadership doctoral program with Library Science cognate.

LSSL 7361. Lit & Rel Mat for PK12 Sch Lib. 3 Hours.
Candidates conduct research on issues of literacy related to school libraries and how literature specifically written for the PK-12 population may be used to promote and support development of literacy. This course involves advanced analysis and synthesis of the knowledge, skills, dispositions and ethics of school library leaders.
Prerequisite: Admission to Educational Leadership doctoral program with Library Science cognate.

LSSL 7366. School Library Doc Internship. 3 Hours.
Doctoral students are prepared for school library leadership, to cultivate an ethic of scholarship, and are provided insight into the challenges of the role. Doctoral students exercise critical perspectives by engaging with the readings, their peers, other educators, and the instructor in class discussions, assignments, reflective journaling, and internship experiences.
Prerequisite: LSSL 7337, LSSL 7361, LSSL 7367, and LSSL 7370.

LSSL 7367. Research in Library Science. 3 Hours.
Students focus on development of useful research questions and methodologies, evaluation of approaches to narrowing gaps between knowledge and practice, means of providing administrative support for research activities, and development of collaborative strategies for implementing school library-related research studies across disciplines.
Prerequisite: Admission to Educational Leadership doctoral program with Library Science cognate.

LSSL 7370. Ldr in Tec/Inf Lit for Sch Lib. 3 Hours.
Candidates research and analyze issues related to technology and information literacy. Topics may include: collaboration between teachers and librarians; the role of librarians as technology leaders on school campuses; professional development and support for faculty; technology as a tool for assessing students; ethical issues related to technology and information literacy; and selection and acquisition of hardware and software.
Prerequisite: Admission to Educational Leadership doctoral program with Library Science cognate.

LSSL 7387. Field Study in Library Science. 3 Hours.
Doctoral students are provided with the opportunity to engage in a detailed investigation of a program or problem in library science. Doctoral students work under the supervision of a Library Science faculty member and are expected to produce a written product or presentation regarding the field study. Permission of the Supervising Professor is required. D. Program and permission of the Supervising Professor.
Prerequisite: Admission to the Ed.

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