

Specialization in Information System Design and Development (MSIS)

This specialization prepares students to work as systems analysts and designers in a wide variety of settings including: IT departments of companies, non-profit organizations, universities, or government agencies; software consulting companies; and as entrepreneurs. Job titles include: Business Analyst, Software Engineer, Application Designer/Architect, Solutions Manager, Project Manager, and Systems Consultant. The specialization focuses on communication and project management skills, as well as an understanding of information technology.

Required Courses	Highly Recommended	Recommended Courses
500 Human Information Interactions 509 Information Retrieval 520 Organization of Information 523 Database Systems I 560 Programming 581 Research Methods Overview 582 Systems Analysis and Design 585 Management for Information Professionals 781 Proposal Preparation and Presentation (1.5 credits) 992 Master's Paper	572 Web Development (1.5) 584 Information Ethics 623 Database II 626 Introduction to Big Data and NoSQL 690 Project Management: Strategies and Applications 718 User Interface Design 767 Information Assurance 795 Professional Field Experience	512 Applications of Natural Language Processing 541 Information Visualization 621 Personal Information Management 672 Web Development II 720 Metadata Architecture and Applications 723 Database Systems III 786 Marketing of Information Services 818 Seminar in Human Information Interaction

Note: Students are encouraged to review the courses offered as INLS 690 or INLS 890 (special topics) each semester, as some of these courses may be relevant to this specialization.