

Specialization in Database Design and Development (MSIS)

Required Courses	Highly Recommended	Recommended Courses	Application Areas (Students may choose to select one or more relevant courses from target environments of interest)
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 Masters Paper	572 Web Development I (1.5) 573 Mobile Web Development (1.5) 623 Database Systems II 626 Introduction to Big Data and NoSQL (1.5) 672 Web Development II 720 Metadata Architectures and Applications 723 Database Systems III 760 Web Databases 789 Big Data, Algorithms, and Society	512 Applications of Natural Language Processing 613 Text Mining 720 Metadata Architectures and Applications 795 Professional Field Experience	706 Biomedical Informatics Research Review (1.5) 708 Law Libraries and Legal Information 740 Digital Libraries 747 Special Libraries and Knowledge Management 748 Health Sciences Environment 841 Seminar in Academic Libraries

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.