

## Specialization in Data Analysis (MSIS)

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 Masters Paper	623 Database Systems II: Intermediate Databases 624 Policy-Based Data Management 625 Information Analytics 626 Introduction to Big Data and NoSQL 641 Visual Analytics 789 Big Data, Algorithms, and Society	512 Applications of Natural Language Processing 541 Information Visualization 613 Text Mining 723 Database Systems III: Advanced Databases 756 Data Curation and Management 760 Web Databases 767 Information Assurance COMP 410 Data structures COMP 562 Introduction to Machine Learning

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.

For a complete list of courses visit the [SILS Courses](#) page