

## Research Data Management Pathway — Required and Recommended Courses

REQUIRED MLIS CORE (16 CREDIT HOURS)		
LIS 60010	The Information Landscape	3
LIS 60020	Information Organization	3
LIS 60030	People in the Information Ecology	3
LIS 60040	Information Institutions and Professions	3
LIS 60050	Research and Assessment in Library and Information Science	3
LIS 60280	Master's Portfolio in Library and Information Science	1

FOUNDATIONAL COURSES (5 CREDIT HOURS)		
LIS 60510	Digital Technologies I: Data Fundamentals	1
LIS 60511	Digital Technologies II: Internet Fundamentals	1
LIS 60513	Digital Curation	3

STRONGLY RECOMMENDED COURSES/KEY ELECTIVES		
LIS 50645	Database Fundamentals for Information Professionals	3
LIS 60637	Metadata Architecture and Implementation	3
LIS 60692	Internship in Information and Cultural Heritage Institutions	2-3

Other courses from knowledge management, user experience design, computer science, data visualization, and statistics may be applied to your MLIS degree requirements (consult your advisor for suggestions).

## Research Data Management Pathway — Additional Information and Resources

### Other related pathways in the D/I/T cluster:

Data Analytics; Digital Libraries; Digital Preservation;  
User-Centered Evaluation

### General Requirements for Emerging Professionals:

- Ability to work on teams and independently
- Competencies in database computing
- Deep understanding of grant writing and research processes
- Experience with creating data management plans
- Experience with qualitative and quantitative research datasets
- Knowledge of statistical packages
- Project management knowledge
- Strong understanding of the importance of research methods/protocols
- Understanding of the scholarly communication ecosystem

### Professional/disciplinary journals with articles relating to data management:

*International Journal of Digital Curation*  
*Journal of eScience Librarianship*  
*College & Research Libraries*  
*Journal of the Association for Information Science and Technology (JASIST)*

### Professional organizations:

American Society of Information Science & Technology (ASIST)  
Research Data Access & Preservation (RDAP)  
Research Data Alliance (RDA)  
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### Sample job titles:

Data Librarian  
Data Management Specialist  
Data Visualization/Data Analyst  
Research Analyst  
Research Data Librarian  
Research Data Manager