

Research Data Management Pathway — Required and Recommended Courses

| REQUIRED MLIS CORE (13 CREDIT HOURS) | | |
|---|--|---|
| 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 60633 | 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



School of Information