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 (11 CREDIT HOURS)		
LIS 50646	Research Data Management	3
LIS 60510	Digital Technologies I: Data Fundamentals	1
LIS 60511	Digital Technologies II: Internet Fundamentals	1
LIS 60633	Digital Curation	3
LIS 61095	Special Topics: Fundamentals of Applied Data Science	3

STRONGLY RECOMMENDED COURSES/KEY ELECTIVES (12-13 CREDIT HOURS)		
LIS 50645	Database Fundamentals for Information Professionals	3
LIS 60613	Information Needs, Seeking and Use	3
LIS 60637	Metadata Architecture and Implementation	3
LIS 60692	Internship in Information and Cultural Heritage Institutions	2-3
LIS 61095	Special Topics: Building Community Engagement, Partnerships and Coalitions	1

Other courses from knowledge management, user experience, 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:
Applied Data Science; Digital Preservation; Digital Humanities

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
- Understanding of reproducible research philosophy, methods, ethics, policy, regulations, and techniques

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)
Force11

Sample job titles:
Data Librarian
Data Management Specialist
Data Visualization/Data Analyst
Research Analyst
Research Data Librarian
Research Data Manager