

Module	Objectives
RDM Overview and Data Lifecycle	<ol style="list-style-type: none"> 1. Describe how the data lifecycle fits into the larger research lifecycle 2. Articulate the importance of RDM to the research lifecycle 3. Summarize the potential roles of librarians in RDM
Data Curation and Documentation	<ol style="list-style-type: none"> 1. Explain what data curation encompasses 2. Explain various types of data (e.g. surveys, video, images) 3. Identify which data elements are important to document 4. Recommend file naming convention based on best practices 5. Check a dataset for potential privacy issues
Data Standards, Taxonomies, and Ontologies	<ol style="list-style-type: none"> 1. Distinguish between standards, metadata, taxonomy, and ontology 2. Locate and choose appropriate metadata/descriptors/ontologies for a given dataset 3. Apply selected standards to a given dataset
Data Security, Storage, and Preservation	<ol style="list-style-type: none"> 1. Evaluate preservation needs of a dataset (e.g. file format, software) 2. Identify appropriate data repositories for a given dataset 3. Discuss potential solutions for datasets with security/privacy issues (HIPAA) 4. Explain how policies affect data ownership, security, and storage
Data Sharing and Publishing	<ol style="list-style-type: none"> 1. Articulate the FAIR data principles 2. Explain the importance of research reproducibility 3. Describe the concept of “open data” and challenges for sharing biomedical research data 4. Explain data sharing incentives, data citations, and data journals
Data Management Plans	<ol style="list-style-type: none"> 1. Explain DMP requirements of funding agencies (NIH, NSF) 2. Create a DMP that meets the requirements of a selected funding agency