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Source	Global Region	Course(s)/Program(s)	Pre-Requisite(s)	Program / Project	Topic(s)	Pre-Requisite(s)	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07	Topic 08
Florida State University	N. America	LIS 2201 Research and Data Analysis in Information Technology (3)	This course provides students with an understanding of methods and tools used by information professionals for research and data analysis. It focuses on both qualitative and quantitative methods in data analysis, and the use of research tools and techniques. It also covers the ethical implications of research, and the use of research tools and techniques.	Undergraduate	analytics	informatics								
		IS 530 Bioinformatics: Principles and Research	Research is the pursuit of 17 professionals, with the ability to assess a situation, identify key perspectives, gather more information if necessary, and identify key issues for the next analysis. Analytical thinking is a critical skill required for identifying appropriate solutions for complex strategic work processes and improving communication in organizations.	Undergraduate	analytics	informatics								
Brigham Young University	N. America	IS 531 Foundations of Data Science	This course introduces Information Science as an engine of exploration and discovery for biology. Students will learn historical origins of bioinformatics, biological organisms and processes as theoretical phenomena, central problems of biology that are addressed with information technology, information representation and data analysis, and the use of information technology in biology. The course will also introduce students to the use of information technology in biology, and the use of information technology in biology.	Undergraduate	data science	databases								
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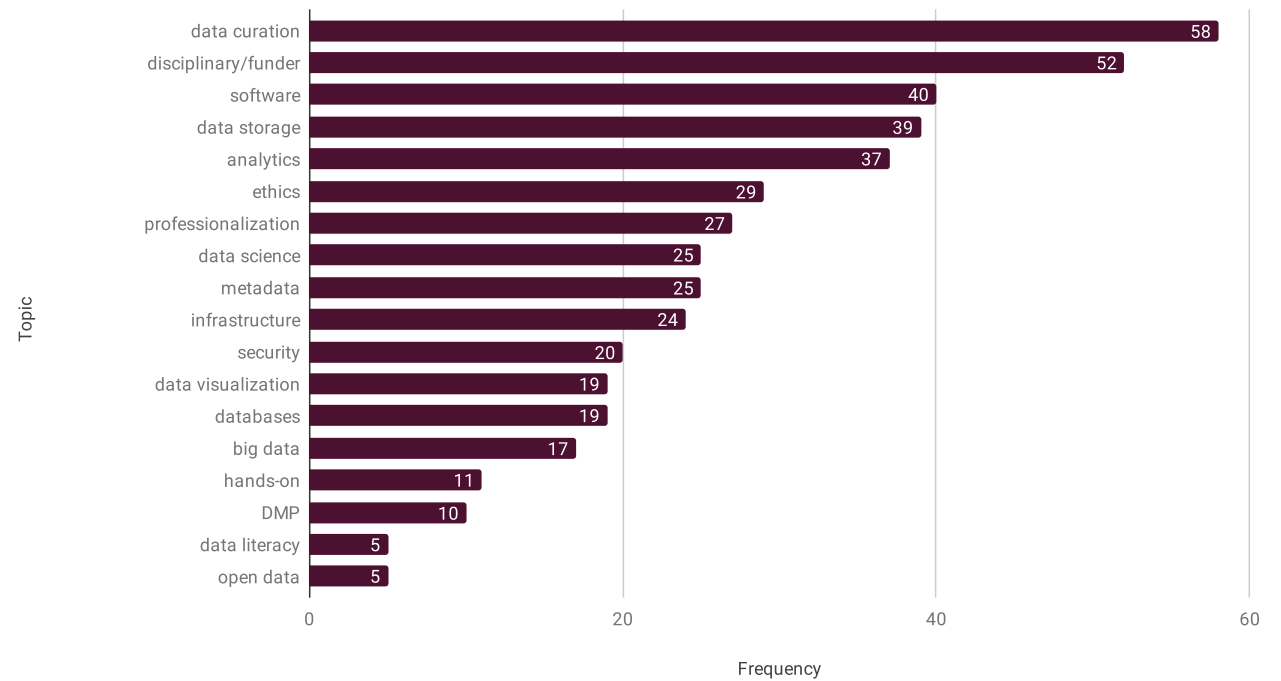




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data curation	58
disciplinary/funder requirements	52
software	40
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databases	19
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hands-on	11
DMP	10
data literacy	5
open data	5

Courses at iSchools
































































































































	Masters	Bachelors	Graduate Certificate	Doctorate	N/A	Open
	94	56	23	16	28	1
Graduate Certificate in Data Management						
Master of Information Studies (Data Management) - required	1		1			
Graduate Certificate in Data Management						
Master of Information Studies (Data Management) - required	1		1			
Graduate Certificate in Data Management						
Master of Information Studies (Data Management) - requirement	1		1			
Graduate Certificate in Data Management						
Master of Information Studies (Data Management) - elective						
Not available to students who have completed INF327						
INF327 (Project Management in Information Agencies) Paired Subject	1		1			
Bachelor of Information Studies (Librarianship) - elective						
Bachelor of Information Studies (Information and Knowledge Management) - elective						
Bachelor of Information Studies (Records and Archives Management) - elective						
Graduate Certificate in Data Management						
Master of Information Studies (Data Management) - elective						
Master of Information Studies (Information and Knowledge Management) - elective						
Master of Information Studies (Librarianship) - elective						
Master of Information Studies (Records and Archives Management) - elective						
Not available to students who have completed INF334 or INF534.	1	1	1			
Master of Science in Information Systems (M.Sc. IS)	1					
Master of Science in Information Systems (M.Sc. IS)	1					
BSc (IS)						
BSc (IS) : Smart-City Management & Technology - Elective		1				
BSc (IS)						
Information Systems Core						
BSc (IS) : Smart-City Management & Technology Core		1				
Masters	1					
Masters	1					
Master of Science in Library and Information Management - specialization in Data science - Data curation	1					
Master of Science in Library and Information Management - specialization in Data science - Data curation						
Master of Science in Library and Information Management - specialization in Archives and records management - Data curation	1					
BLIS						
Prereq: any math skills course		1				
Undergraduate / Library Science / Elective		1				
Graduate / Library Science / Elective		1				
Graduate / Electronic Commerce / Elective		1				
Bachelor's Economics and Business						
Bachelor's Business Administration						
Exchange programme Exchange Programme UvA Economics and Business		1				
4000 level upper-division course, open to seniors and graduate students	1	1				
Master of Library and Information Science Information Management	1					

	Masters	Bachelors	Graduate Certificate	Doctorate	N/A	Open
Master of Library and Information Science Library and Information Science Prerequisite: LIS 701	1					
Master of Library and Information Science Library and Information Science Prerequisite: LIS 701	1					
Bachelor of Science in Information Systems (BSIS) Bachelor of Science in Computing & Security Technology						
Prerequisites: INFO 151 [Min Grade: D] or CS 140 [Min Grade: D] or CS 171 [Min Grade: D]			1			
Master of Science in Library and Information Science (MSLIS)						
Master of Science in Health Informatics (MSHI)						
Prerequisites: INFO 530 [Min Grade: C] or INFO 540 [Min Grade: C]	1					
Undergraduate degree / Information Technology			1			
Undergraduate degree / Information Technology			1			
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	
Undergraduate MS/LIS MS/IM PhD LIS Graduate certificate	1		1	1	1	

	Masters	Bachelors	Graduate Certificate	Doctorate	N/A	Open
Undergraduate						
MS/LIS						
MS/IM						
PhD LIS						
Graduate certificate	1	1	1		1	
PhD LIS					1	
Undergraduate						
MS/LIS						
MS/IM						
PhD LIS						
Graduate certificate	1	1	1		1	
Undergraduate						
MS/LIS						
MS/IM						
PhD LIS						
Graduate certificate	1	1	1		1	
Undergraduate						
MS/LIS						
MS/IM						
PhD LIS						
Graduate certificate	1	1	1		1	
Undergraduate			1			
Undergraduate						
Prerequisites: Strongly recommended to take LIS-S 281, LIS-S 305, and LIS-S 405 as prerequisites			1			
Undergraduate			1			
Graduate	1					
Graduate						
Prerequisite(s): INFO B505 Informatics Project Management, INFO B530 Foundations of Health Informatics	1					
Graduate	1					
Undergraduate			1			
Undergraduate			1			
Undergraduate			1			
Undergraduate			1			
Undergraduate			1			
Undergraduate			1			
Undergraduate						
Prerequisite(s): Strongly recommended to take LIS-S 281, LIS-S 305, and LIS-S 405 as prerequisites			1			
Undergraduate						
Prerequisite: LIS-S 281			1			
Undergraduate			1			
Undergraduate			1			
Undergraduate			1			
Graduate MLIS						
Prerequisite(s): LIS S500 and LIS S503	1					
Undergraduate			1			
Undergraduate			1			
Graduate						
Informatics	1					

	Masters	Bachelors	Graduate Certificate	Doctorate	N/A	Open
Graduate						
Prerequisite: LIS 60002 or LIS 60020 (Information Organization); and LIS 60511 (Digital Technologies II); and graduate standing	1					
Graduate						
Prerequisite: LIS 60631 or 60638; and graduate standing.	1					
Graduate	1					
Graduate	1					
MLIS						
Elective	1					
Graduate						
Concentration	1					
Undergraduate		1				
Undergraduate		1				
Graduate						
Prerequisite: LIS 485	1					
Graduate	1					
Graduate	1					
Graduate	1					
Graduate	1					
Graduate	1					
Graduate	1					
Graduate	1					
Undergraduate		1				
Undergraduate		1				
Graduate	1					
LIBR 559S; completion of the MLIS core courses for MLIS students						
Dual students must meet the prerequisites for the section in which they register	1					
Graduate	1					
Graduate	1					
Master of Information and Data Science (MIDS)	1					
Graduate						
Graduate certificate						
PhD						
Info Courses						
Lower Division						
This course is meant to be taken concurrently with Computer Science C8/Statistics C8/Information C8. Students may take more than one 88 (data science connector) course if they wish, ideally concurrent with or after having taken the C8 course.	1		1		1	
Graduate						
Graduate certificate						
PhD						
Info Courses						
Upper Division	1		1		1	
Graduate						
Graduate certificate						
PhD						
Data Science Courses						
Advanced	1					
Graduate	1					
Graduate	1					

	Masters	Bachelors	Graduate Certificate	Doctorate	N/A	Open
Graduate	1					
N/A						1
MLIS Core Curriculum	1					
MLIS	1					
BS						
Foundation course		1				
Graduate						
IS 501 or instructor permission			1			
N/A						1
N/A						1
N/A						1
N/A						1
Undergraduate						
Graduate	1	1				
Undergraduate		1				
Graduate	1					
Undergraduate		1				
Graduate						
Prerequisite: Enrollment in the program and DATA 601	1					
Graduate						
Prerequisite: Enrollment in the program and DATA 601	1					
Graduate	1					
Graduate	1					
Graduate	1					
Graduate	1					
Graduate	1					
N/A						1
N/A						1
N/A						1
N/A						1
N/A						1
N/A						1
Graduate	1					
Certificate						
Concurrent: INU1030 and INU1001						
This course is offered in these degree programs						
Certificate in Digital Information Management (1-053-5-1)						
Certificate in Archival Science (1-056-5-1)			1			
N/A						1
Graduate	1					
Graduate	1					
Undergraduate						
Graduate	1	1				
Graduate	1					
Included in MS-IS in Health Informatics	1					
N/A						1
Undergraduates						
Graduate students	1	1				
NO prerequisites and will also cover programming (Python)		1				

	Masters	Bachelors	Graduate Certificate	Doctorate	N/A	Open
CS 0441 Discrete Structures for Computer Science						
CS 0445 Data Structures (COE 0445)						1
N/A						1
CS 2520 Wide Area Networks (TELCOM 2321)						1
STAT 0200, STAT 1000, STAT 1100, STAT 1151, STAT 1152, or ENGR 0020 (min grade C or Transfer)						1
N/A						1
N/A						1
N/A						1
Corequisite: Prereq or coreq: BIOS 700						
Prerequisites: Prereq or coreq: BIOS 700						1
N/A						1
Restricted to students in the Master of Science in Identity Management and Security program.		1				
Graduate standing		1				
Graduate standing		1				
Graduate standing and consent of instructor		1				
Graduate standing						
Information 385T (Topic: Intelligence Gathering) and 385T (Topic 7) may not both be counted.		1				
Pre-requisite Note: As of January 2018, the pre-requisite is INF1321H or INF1322H or INF1323H or INF1324H. If you have taken the pre-requisite course INF1310H prior to January 2018 then you do not need to take NF1321H or INF1322H or INF1323H or INF1324H in order to take Data Librarianship.		1				
As of September 2018, prerequisite course: INF1341H						
Recommended: To be taken in second year.						
Note: Formerly Architecting Information, Systems, and Organizations – No change in content.		1				
Pre-requisite Note: As of January 2018, the pre-requisite is INF1321H or INF1322H or INF1323H or INF1324H. If you have taken the pre-requisite course INF1310H prior to January 2018 then you do not need to take NF1321H or INF1322H or INF1323H or INF1324H in order to take Evidence-Based Healthcare for Librarians.						
Note: Formerly: The course was named "Health Sciences Information Resources" and is now named "Evidence-Based Healthcare for Librarians" effective September 2017. Description has changed.		1				
N/A						1
N/A						1
Open						1
MLIS						
Prerequisite: INFX 551		1				
Masters		1				
Masters		1				
Masters		1				
Master of Arts in Library and Information Studies		1				
Master of Arts in Library and Information Studies		1				
jr st.			1			
jr st; InfoSt(L&I Sci) 655(P) or cons instr.			1			
Master of Arts in Library and Information Studies		1				
Masters		1				
Continuing Education				1		
Master of Arts in Library and Information Studies			1			
MLIS Prerequisite(s): INF 6010 and INF 6080						
MSIM Co-requisite(s): INF 6000			1			
INF 6210, or permission of the instructor						1











































Indiana University - Purdue University Indianapolis School of Informatics and Computing	18
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University of Pittsburgh: School of Computing and Information (USA)	8
University of Washington Libraries	8
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University of California, Los Angeles Department of Information Studies	6
Charles Sturt University: School of Information Studies	5
University of Illinois at Urbana-Champaign: School of Information Sciences	5
University of Texas: School of Information	5
Syracuse University: School of Information Studies	4
University of California, Berkeley: School of Information (USA)	4
University of Hong Kong: Division of Information and Technology Studies (I&TS)	4
University of North Carolina at Chapel Hill	4
Dominican University: School of Information Studies (USA)	3
Indiana University: School of Informatics, Computing, and Engineering	3
The University of Tennessee: School of Information Sciences	3
University of Kentucky: College of Communications and Information	3
University of Toronto: Faculty of Information	3
WISE / The University of Pittsburgh	3
Wuhan University School of Information Management	3
Drexel University College of Computing & Informatics	2
Florida State University	2
Kent State University School of Information	2
Makerere University: The College of Computing and Information Sciences	2
Pratt Institute, School of Information (USA)	2

Rutgers, The State University of New Jersey: School of Communication and Information	2
Singapore Management University: School of Information Systems	2
Texas A&M University – Kingsville	2
The Pennsylvania State University: College of Information Sciences and Technology	2
University of British Columbia iSchool	2
University of Montréal: Université de Montréal École de bibliothéconomie et des sciences de l'information	2
University of Oklahoma	2
University of South Carolina: School of Library & Information Science	2
Wayne State University: School of Information Sciences	2
Cornell University: Faculty of Computing and Information Science	1
McGill School of Information Studies	1
Simmons, Boston: School of Library and Information Science	1
University of Amsterdam: Graduate School of Humanities, Archives and Information Studies (The Netherlands)	1
University of Arizona: School of Information	1
University of Colorado: Boulder: Department of Information Science	1
University of Missouri: School of Information Science and Learning Technologies (SISLT)	1
University of North Texas: College of Information	1
University of the Philippines: School of Library and Information Studies	1
WISE / Long Island University: Palmer School of Library & Information Science	1

N. America	39
Asia Pacific	6
Europe	1

School	Source	ISchool Region	Course(s)/Program(s)	Pre-Requisites / Program	Link(s)	Faculty	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07
Queens College, CUNY	<a href="#">ALA Directory</a>	N. America	LBSCI 729 Metadata for Digital Resources 3 hr.: 3 cr. This is a course about encoding and applying metadata standards to describe and represent electronic information as objects (e.g., eBooks, web sites, etc.) in a distributed network environment. Covers various applications in libraries and information institutions, with a focus on the meta mark-up languages	Graduate Certificate in Archives and Preservation of Cultural Materials Prereq.: LBSCI 700, 701, 702, 703	<a href="https://sites.google.com/a/qc.cuny.edu/gsis/programs/certificate-in-archives-and-preservation-of-cultural-materials">https://sites.google.com/a/qc.cuny.edu/gsis/programs/certificate-in-archives-and-preservation-of-cultural-materials</a>		metadata						
Queens College, CUNY	<a href="#">ALA Directory</a>	N. America	LBSCI 752 Digital Preservation Complementing LBSCI 733: Preservation of Cultural Heritage Materials, this course examines the theory, tools/technologies and issues associated with the long-term retention, preservation and accessibility of material digitally born or subsequently digitized/reformatted. Topics covered will include the characteristics of digital media, standards and quality control, digital asset management, and best practices. The role of digital preservation in the process of digital curation will be highlighted. Completion of LBSCI 729: Introduction to Metadata and/or LBSCI 757: Digital Imaging, prior to enrollment, is recommended. The goal is to introduce students to the theoretical, practical and technological aspects of digital preservation and to place preservation in the broader context of digital curation.	Graduate Certificate in Archives and Preservation of Cultural Materials/LBSCI 700, 701, 702, 703; or permission of the instructor	<a href="https://sites.google.com/a/qc.cuny.edu/gsis/programs/certificate-in-archives-and-preservation-of-cultural-materials">https://sites.google.com/a/qc.cuny.edu/gsis/programs/certificate-in-archives-and-preservation-of-cultural-materials</a>		metadata	data curation	data storage				
University of Southern Mississippi	<a href="#">ALA Directory</a>	N. America	652. Metadata for Digital Collections. 3 hrs. Prerequisite: LIS 505. An overview of metadata as it applies to digital resources in libraries, archives, and museums.	Graduate Certificate in Archives and Special Collections Masters Digital Libraries Specialization & Master of Information Science	<a href="https://www.usm.edu/library-information-science/graduate-certificate-archives-and-special-collections-course-information">https://www.usm.edu/library-information-science/graduate-certificate-archives-and-special-collections-course-information</a>		metadata						
University of Denver	<a href="#">ALA Directory</a>	N. America	Library and Information Science Certificate Program with a Concentration in: Research Data Management  Learn to manage research data at academic libraries, research service centers, scientific and research organizations, government agencies, and non-profit organizations in this comprehensive 28 credit program.	Graduate Certificate in Data Research Management Students in the Library Information Science Certificate Program will receive a Certificate in Research Data Management.	<a href="https://morgridge.du.edu/programs/library-and-information-science/certificate-research-data-management/">https://morgridge.du.edu/programs/library-and-information-science/certificate-research-data-management/</a>		data curation			disciplinary/funder requirements			
University of Iowa	<a href="#">ALA Directory</a>	N. America	SUS 8100: Database Systems/Data Management & Visualization	Graduate Public Digital Humanities certificate	<a href="http://www.lib.uiowa.edu/studio/files/2018/06/Certificate-Electives-2.pdf">http://www.lib.uiowa.edu/studio/files/2018/06/Certificate-Electives-2.pdf</a>		software			data visualization			
University of Iowa	<a href="#">ALA Directory</a>	N. America	SUS 8411: Topics: Designing "Dataviz"	Graduate Public Digital Humanities certificate	<a href="http://www.lib.uiowa.edu/studio/files/2018/06/Certificate-Electives-2.pdf">http://www.lib.uiowa.edu/studio/files/2018/06/Certificate-Electives-2.pdf</a>		software			visualization			
University of Iowa	<a href="#">ALA Directory</a>	N. America	IGPI/BIOS 5310 Research Data Management (3 s.h.) Introduction to data management techniques and problems encountered in gathering and processing data from biomedical investigations; introduction to SAS, techniques taught in SAS; designed for non-biostatistics majors. Offered fall and spring semesters. Recommendations: prior programming experience with C, C++, Python, Java, or other. Same as IGPI 5310, STAT 5810	Health Informatics MS/PharmD, Ph.D., M.S. Programs College of Public Health / Biostatistics	<a href="https://informatics.uiowa.edu/study-opportunities/graduate-program/health-informatics-mpharmd/hi-mpharmd-curriculum">https://informatics.uiowa.edu/study-opportunities/graduate-program/health-informatics-mpharmd/hi-mpharmd-curriculum</a> <a href="http://catalog.registrar.uiowa.edu/courses/bios/bios.pdf">http://catalog.registrar.uiowa.edu/courses/bios/bios.pdf</a>		software			disciplinary/funder requirements			
University of Iowa	<a href="#">ALA Directory</a>	N. America	MSCI 4280 Data Security Data and network security topics to ensure confidentiality, integrity, and availability of information and assets including cryptography, access control, physical security, network and application security, and management issues surrounding information security.	Information Science Ph.D., M.S. Programs College of Business / Management Sciences	<a href="https://informatics.uiowa.edu/study-opportunities/graduate-program/information-science/ms-and-phd-curriculum">https://informatics.uiowa.edu/study-opportunities/graduate-program/information-science/ms-and-phd-curriculum</a>		security						
University of Nebraska Omaha	<a href="#">ALA Directory</a>	N. America	TED 2500 Digital Citizenship The course is an introduction to the basic tenets of digital citizenship including legalities, ethics, privacy and security. The course fosters an awareness of digital citizenship as a topic that impacts pedagogy and programming and reflects best practice in all types of learning communities.	Library Science, BMSBachelor of Multidisciplinary Studies Library Science, BS Ed (Library Science) Bachelor of Science	<a href="https://online.nebraska.edu/program/university-of-nebraska-at-omaha-library-science-bgs-bachelor-bgs-1458431145960">https://online.nebraska.edu/program/university-of-nebraska-at-omaha-library-science-bgs-bachelor-bgs-1458431145960</a>		ethics	security					
University of Ottawa	<a href="#">ALA Directory</a>	N. America	ISI 6361 Advanced Research Methods in Information Studies (3 units)  Advanced study of quantitative and qualitative research paradigms for the investigation of both practical and theoretical problems in information studies and the critical assessment of published research. The course addresses online data collection and analysis, ethics of Internet research and relevant data analysis software, and established and emerging research methods for large data sets.	Master of Information Studies (Bilingual)	<a href="https://catalogue.uottawa.ca/en/graduate/master-information-studies-bilingual/#Coursestext">https://catalogue.uottawa.ca/en/graduate/master-information-studies-bilingual/#Coursestext</a>		ethics	software		disciplinary/funder requirements			
University of Rhode Island	<a href="#">ALA Directory</a>	N. America	LSC 544: Visual Information Science (3 crs.) An introduction to the interdisciplinary study of visual information science related to visual information (data) collection, analysis, processing, transmission, utilization, and communication in modern and digital libraries and information centers.	Master's (MLIS) (Lec. 3/Online) Pre: LSC 508 or permission of instructor.	<a href="https://hamilton.uri.edu/academics/library-and-information-studies/course-descriptions/">https://hamilton.uri.edu/academics/library-and-information-studies/course-descriptions/</a>		disciplinary/funder requirements		data curation				
North Carolina Central University School of Library and Information Sciences	<a href="#">ALA Directory</a>	N. America	LSIS 5440: Data-mining and Management with Statistical Analysis Applications (3) Overview of data mining and its application in business. Topics include data mining models such as decision trees, genetic algorithms, neural nets, agent network technology; data mining process and discussion of practical available data mining tools.	Masters	<a href="http://hccuslis.org/catalog-descriptions-of-courses-with-record-syllabi/">http://hccuslis.org/catalog-descriptions-of-courses-with-record-syllabi/</a>		data science						
North Carolina Central University School of Library and Information Sciences	<a href="#">ALA Directory</a>	N. America	LSIS 5830 - Metadata Applications for Digital Libraries (3) Principles underlying organizing and accessing digital resources; issues of interoperability, internal and external standardization; applications and evaluations of a variety of metadata standards for digital resources.	Masters	<a href="http://hccuslis.org/post-phdpost74/">http://hccuslis.org/post-phdpost74/</a>		metadata						
Emporia State University	<a href="#">ALA Directory</a>	N. America	LI 792 Key Literacy Connections in STEM Subjects: Conducting Investigations, Analyzing and Interpreting Data  Science, Technology, Engineering, and Mathematics (STEM) teachers and school librarians collaborate as instructional partners to prepare to teach 4-12 grade level students to systematically plan and carry out STEM-related investigations making key literacy connections. Students learn techniques to make use of efficient and effective strategies for accessing, evaluating, and using information from diverse sources; presenting data in multiple formats; and analyzing and interpreting data through tabulating, graphing, and/or statistical analysis.	Masters Library and Information Management	<a href="https://www.emporia.edu/olm/studentresources/schedules/course-descriptions/792.pdf?language_id=1">https://www.emporia.edu/olm/studentresources/schedules/course-descriptions/792.pdf?language_id=1</a>		disciplinary/funder requirements	analysis	data curation	software			

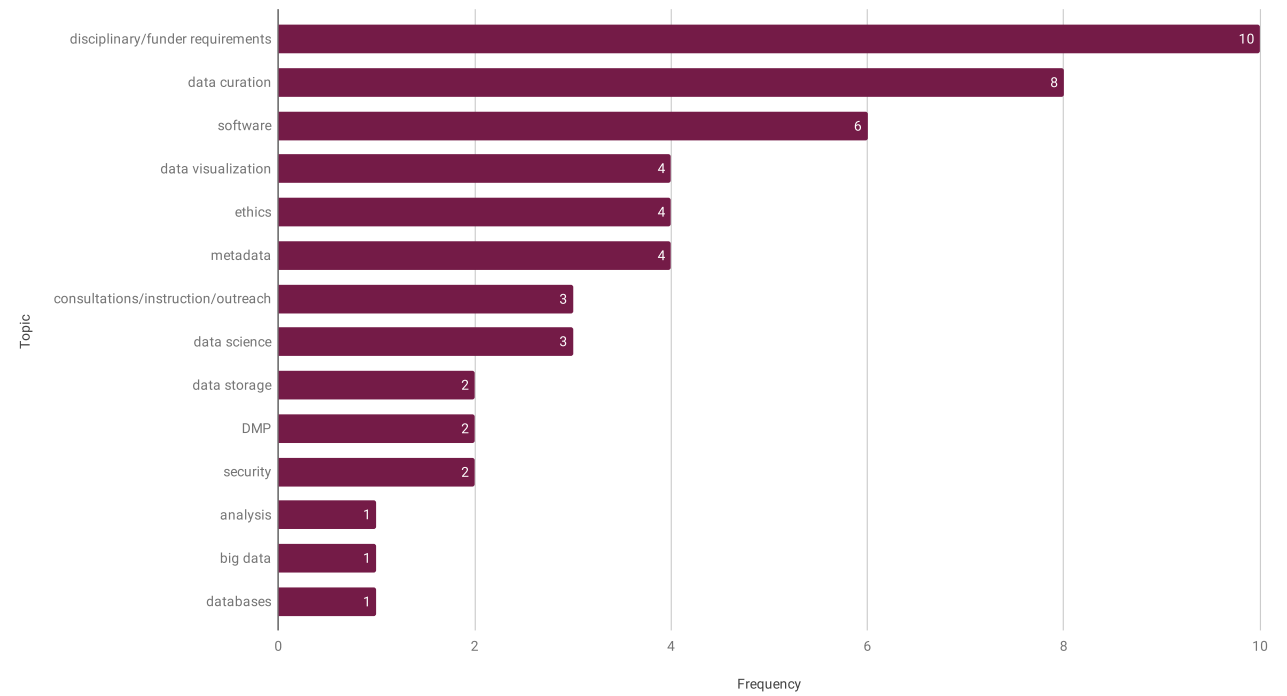
School	Source	ISchool Region	Course(s)/Program(s)	Pre-Requisites / Program	Link(s)	Faculty	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07
University of Western Ontario (Western University)	<a href="#">ALA Directory</a>	N. America	LIS 9374A-650 (Fall 2018) Special Topic: Research Data Management This course is intended to provide a broad overview of Research Data Management concepts, theory, and practice, relying on Canadian, US, UK, and European resources, and international archives and standards organizations. While not limited to data from any particular discipline or any particular data format (numeric, geospatial, textual, sound, video, etc.), examples will lean toward numeric data from the social sciences. Students will learn about the policy landscape surrounding Research Data Management and the importance of developing Data Management Plans. Course work and assignments will be tailored to encourage independent exploration/reporting and to reinforce understanding of specific practices and broader concepts. Students should leave the course with a sense of the importance of Research Data Management and the evolving (and growing) role of Libraries and Librarians in this enterprise. Students will be introduced to the new CARL/Portage DMP (Data Management Planning) Assistant, and will use this tool to write a data management plan.  Program Content Areas Connecting People with Information Information Organization, Curation and Access Information Policy  Upon successful completion of readings, assignments, and class participation, students will be able to: 1. Learn RDM concepts, theory, and practice (PLO 2); 2. Gain exposure to RDM for multiple disciplines (Social Sciences, Health, Science, and Humanities) and a variety of data formats (numeric, geospatial, textual, sound, video, etc.) (PLO 8); 3. Learn about the policy landscape surrounding RDM (PLO 2, 5); 4. Gain practical experience creating a Data Management Plan – specifically, students will be introduced to the new CARL Portage Data Management Planning (DMP) Builder, and will use the DMP Builder to draft a data management plan (PLO 4, 6).	Masters Prerequisites: GRADLIS 9002 (Information Organization, Curation and Access, 9004 (Research Methods and Statistics)	<a href="http://www.fms.uwo.ca/programs/graduate_programs/master_of_library_and_information_science/course_description.html?CourseId=9890">http://www.fms.uwo.ca/programs/graduate_programs/master_of_library_and_information_science/course_description.html?CourseId=9890</a>	J. Moon	disciplinary/funder requirements	DMP					
San Jose State University	<a href="#">ALA Directory</a>	N. America	INFO 220. Resources and Information Services in Professions and Disciplines  Examination of the nature of resources for, and services to, professions and disciplines including methods of communication, characteristics of users, and current methods of meeting research needs in libraries and information centers.  Examples of topics studied include: Legal Resources, Business Resources, Maps and Geographic Information Systems, Film and Media Collections, Digital Humanities, GLBT services, Psychology of the Information User, Readers Advisory Genres and Techniques., Data Services in Libraries.  Digital Stewardship concentration Digital stewardship is an area of information practice that involves the care and management of digital resources over time. Digital stewards are involved in all stages of the digital resource lifecycle, including creation, appraisal, description, preservation, access, and reuse. This broad area of study incorporates digital archives, digital repositories, digital libraries, digital asset management, research data management, digital preservation, digital curation, and digital culture studies. Students best suited to this area of emphasis are those that enjoy working collaboratively to solve problems; those who seek to engage with diverse communities; and those who wish to encourage the open exchange of ideas and services.	Masters Prerequisites: INFO 210	<a href="https://schools.sjsu.edu/gssi/gss/showSheet.php?c27524">https://schools.sjsu.edu/gssi/gss/showSheet.php?c27524</a>		consultations/instruction/outreach						
University of Alabama	<a href="#">ALA Directory</a>	N. America	Social Justice and Inclusivity concentration Students specializing in this area will gain facility in identifying, discussing, and intervening on structural systems of inequality such as those shaped by race, ethnicity, class, gender expression, sexual orientation, ability, religious preferences, and age. Social justice and inclusion provide ethical orientations and practical frameworks that students can use to guide a range of professional practices including: information access and organization, policy development, collection development, interpersonal interactions, reference work, information literacy, programs and services, technology design, outreach activities, and data management.	MLIS - Campus	<a href="https://sla.ua.edu/prospective-students/mlis-on-campus/">https://sla.ua.edu/prospective-students/mlis-on-campus/</a>		consultations/instruction/outreach	data curation	data storage				
University of Alabama	<a href="#">ALA Directory</a>	N. America		MLIS - Campus	<a href="https://sla.ua.edu/prospective-students/mlis-on-campus/">https://sla.ua.edu/prospective-students/mlis-on-campus/</a>		consultations/instruction/outreach	ethics					
Dalhousie University	<a href="#">ALA Directory</a>	N. America	INFO 6270.03 Introduction to Data Science	MLIS Advanced Technology Elective MLIS/MREM			data science						
Dalhousie University	<a href="#">ALA Directory</a>	N. America	INFO 6513.03 Business Analytics and Data Visualization	MLIS Advanced Technology Elective MLIS/MREM			data visualization	disciplinary/funder requirements					
Dalhousie University	<a href="#">ALA Directory</a>	N. America	INFO 6681.03 Geospatial Information Management INFO 6540 Data Management	MLIS Advanced Technology Elective MLIS/MREM			disciplinary/funder requirements						
Dalhousie University	<a href="#">ALA Directory</a>	N. America	Introduces the theory and practice of managing data, covering technology-driven solutions to the challenges of storing, curating, and retrieving unstructured, semi-structured, and structured data. Topics include tabular data, assessing data management requirements, data models and schemas, relational database management systems, SQL, post-relational DBMSs, Big Data, and visualization.  INFO 6850.03 Special Topics in Information Management: Managing Research Data  Information professionals are increasingly called upon to support researchers in their efforts to manage the expanding volume, variety, and velocity of research. This course introduces the theory and practice of research data management across multiple disciplines, including data policy, data management plans, data standards, data rescue, and research data services.	MLIS Core Course MLIS/MREM  Cross-list: MGMT 4540, BUSI 6516	<a href="https://cdp.dal.ca/content/dam/dalhousie/pdf/schoolofinformationmanagement/Syllabi/INFO%206540_W18_2018_01_04.pdf">https://cdp.dal.ca/content/dam/dalhousie/pdf/schoolofinformationmanagement/Syllabi/INFO%206540_W18_2018_01_04.pdf</a>	Elvira Mitrika	data curation	big data		disciplinary/funder requirements			
Dalhousie University	<a href="#">ALA Directory</a>	N. America		MLIS Elective Course MLIS/MREM	<a href="https://cdp.dal.ca/content/dam/dalhousie/pdf/schoolofinformationmanagement/Syllabi/INFO%206850_F17_2017_08_03.pdf">https://cdp.dal.ca/content/dam/dalhousie/pdf/schoolofinformationmanagement/Syllabi/INFO%206850_F17_2017_08_03.pdf</a>	Mike Smit Sarah Stevenson	DMP	disciplinary/funder requirements	data curation				

School	Source	ISchool Region	Course(s)/Program(s)	Pre-Requisites / Program	Link(s)	Faculty	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07
University of Iowa	<a href="#">ALA Directory</a>	N. America	IGPI/SLIS 6100 Data Management (Spring) Principles and practices of database design and management; discussion and practice cover database application lifecycle, data modeling, relational database design, SQL queries, reports and other interfaces to database data, documentation; individual and group projects. Prerequisites: SLIS 5020. Same as SLIS 6100	Ph.D. Program IGPI Geoinformatics	<a href="https://informatics.uiowa.edu/study-opportunities/graduate-program/geoinformatica/phd-curriculum">https://informatics.uiowa.edu/study-opportunities/graduate-program/geoinformatica/phd-curriculum</a>		software	databases					
Catholic University of America Department of Library and Information Science	<a href="#">ALA Directory</a>	N. America	LSC 327 Introduction to Data Science  3 Credits This is an introduction course to provide foundations in the area of data science with discussion on methods, concepts and opportunities in Data Science. Students will learn foundational data analytics concepts and techniques through recent work and publications as well as projects. Topics of the course include types of datasets, data management and processing, methods for data analysis including machine learning and data mining, data visualization, and issues around data including ethics and policy. The course will combine theoretical foundations with implementation and evaluation of data analysis algorithms on real data.	Undergraduate	<a href="https://lis.catholic.edu/academics/courses/courses-for-undergraduates/index.html">https://lis.catholic.edu/academics/courses/courses-for-undergraduates/index.html</a>		data science	data curation	data visualization	ethics			



disciplinary/funder requirements	10
data curation	8
software	6
data visualization	4
ethics	4
metadata	4
consultations/instruction/outreach	3
data science	3
data storage	2
DMP	2
security	2
analysis	1
big data	1
databases	1

Courses at ALA-accredited programs



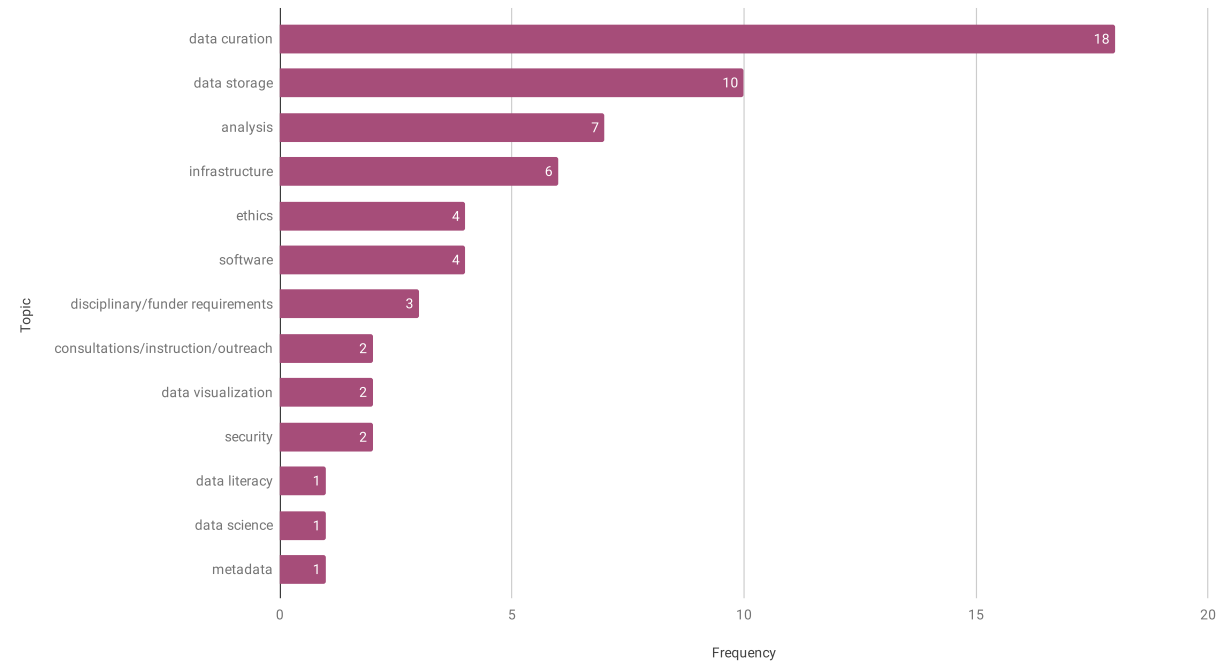
School	Source	Region	Course(s)/Program(s)	Pre-Requisites / Program	Link(s)	Faculty	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07	Topic 08
Aberystwyth University	<a href="#">DCC</a>	Europe	DS35010 Digital Information: Discovery to Delivery The 21st century information professional needs to be equipped to manage digital material in a manner which best supports long-term access and preservation. This module is concerned with both the selection and creation of digital material and the complex issue of maintaining digital continuity. This requires an understanding of the strategic, administrative and technical issues involved.	BSc Information and Library Studies - includes optional module in Digital Information	<a href="http://www.aber.ac.uk/en/modules/sepdl/urs/DS35010/">http://www.aber.ac.uk/en/modules/sepdl/urs/DS35010/</a>	Co-ordinator Dr Sarah Higgins	data storage	data curation	infrastructure					
Aberystwyth University	<a href="#">DCC</a>	Europe	ILM0820 Records and Information Governance * Create policies, plans and procedures to ensure the security, authenticity and integrity of data/information and records and ensure they meet legal admissibility requirement  In semester 1 students of this module will explore and critically assess ways in which digital information is created, acquired, organised and presented within digital libraries so as to support its discovery and delivery.  In semester 2 students will be provided with the theoretical knowledge and skills required to ensure the long-term accessibility to such information through the development and administration of a digital preservation programme.	MScPGDip Digital Curation MAV PG Dip Archive Administration	<a href="http://courses.aber.ac.uk/postgraduate/information-and-library-studies/masters/">http://courses.aber.ac.uk/postgraduate/information-and-library-studies/masters/</a>		data curation	data storage						
Aberystwyth University	<a href="#">DCC</a>	Europe	DS35010 Digital Information: Discovery to Delivery (undergraduate 10 credits) The 21st century information professional needs to be equipped to manage digital material in a manner which best supports long-term access and preservation. This module is concerned with both the selection and creation of digital material and the complex issue of maintaining digital continuity. This requires an understanding of the strategic, administrative and technical issues involved.	MScPGDip Digital Curation MAV PG Dip Archive Administration	<a href="http://www.aber.ac.uk/en/modules/sepdl/urs/ILM0820/">http://www.aber.ac.uk/en/modules/sepdl/urs/ILM0820/</a>	Co-ordinator Miss Jennie A Hill	data curation	security						
Aberystwyth University	<a href="#">DCC</a>	Europe	Knowledge and Information Architecture After completing this short course you should be able to:  explain and provide critical comment on the context and definitions, background and evolution of the principles of Knowledge and Information Architecture critically analyse the relationship between frameworks and theories for information architecture and the study of users and organisations relate a critical analysis of the available and developing technologies for information management and information architecture to current practice and existing developments demonstrate a critical knowledge of information and knowledge structures and organisation apply a critical analysis of theory and technology to the application of design and strategy principles to the development of policy, procedures and design for IA visually represent information and knowledge structures apply techniques for identifying trends and opportunities along with elements of uncertainty, risk and change	Undergraduate Graduate Short Course	<a href="https://www.aber.ac.uk/en/nia/short-courses/digital_information.ccp/">https://www.aber.ac.uk/en/nia/short-courses/digital_information.ccp/</a>	Sarah Higgins	data storage	infrastructure						
Aberystwyth University	<a href="#">DCC</a>	Europe	Digital Preservation  After completing this short course you should be able to:  provide an analytical, contextual account of the development of digital preservation as a 21st century information issue; identify and critically evaluate the characteristics of digital objects, justify the need to preserve each characteristic for continued access and develop a strategy for digital preservation; propose methods for developing and maintaining control over a complex array of digital forms and formats, which address the necessary conditions, techniques and models for digital preservation; formulate rational hypotheses regarding the potential role of institutional repositories and open access initiatives in enabling digital preservation. Demonstrate an understanding of the importance of standards in digital information discovery and delivery	Undergraduate Graduate Short Course	<a href="https://www.aber.ac.uk/en/nia/short-courses/knowledge-cp-acp/curus.ccp.pdf">https://www.aber.ac.uk/en/nia/short-courses/knowledge-cp-acp/curus.ccp.pdf</a>	Prof. David Ellis	infrastructure	data visualization	data curation					
Aberystwyth University	<a href="#">DCC</a>	Europe	1. What is data? 2. Why use data? 3. Data ethics 4. Searching for data 5. Gathering data 6. Basic tech skills 7. Storytelling 8. Types of visualization 9. Week of visualizations 10. Creating visualizations 11. Preparing data 12. Types of data analysis 13. Storing and managing data 14. Advanced tools 15. Topics of data 16. Final presentation	Undergraduate Graduate Short Course	<a href="https://www.aber.ac.uk/en/nia/short-courses/digital-preservation/">https://www.aber.ac.uk/en/nia/short-courses/digital-preservation/</a>	Sarah Higgins	data curation	infrastructure	data storage					
Fort Hays State University	<a href="#">Listserv post ACRIL (Association of College and Research Libraries)</a>	N. America	Digital Curation Five courses online and one required on-ground internship. Six courses, including internship and research paper  The program prepares students to:  Identify and describe the principles of digital preservation and digital curation Create and assess digital preservation plans and strategies Demonstrate understanding of archival principles of appraisal and the management of digital objects in trustworthy repositories Demonstrate awareness of legal issues that impact museums' abilities to preserve digital collections and make them accessible Identify and describe workflows for the creation and management of digital collections in museum environments Demonstrate understanding of research methods and critical thinking skills through the supervised research paper Participate in the development and promotion of best practices and standards for digital curation of cultural heritage materials Become leaders in the museum and digital curation communities	N/A	N/A - in process	Claire Nickerson Learning Initiatives & OER Librarian Fort Hays State University Forsyth Library	data curation	data visualization	analysis	ethics				
Johns Hopkins University	<a href="#">DCC</a>	N. America	Digital Asset & Media Management MA This course looks at the creation, management, curation and repurposing of digital media and digital assets.	Graduate Certificate in Digital Curation	<a href="http://advanced.jhu.edu/academics/certificate-programs/digital-curation-certificate/">http://advanced.jhu.edu/academics/certificate-programs/digital-curation-certificate/</a>		data curation	data storage	infrastructure	consultations/in ethics				
King's College London	<a href="#">DCC</a>	Europe	Digital Asset & Media Management MA This course looks at the creation, management, curation and repurposing of digital media and digital assets.	Master's degree (MA)	<a href="https://www.kcl.ac.uk/study/postgraduate/taught/courses/digital-asset-and-media-management/ma.aspx">https://www.kcl.ac.uk/study/postgraduate/taught/courses/digital-asset-and-media-management/ma.aspx</a>		data curation							

School	Source	Region	Course(s)/Program(s)	Pre-Requisites / Program	Link(s)	Faculty	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07	Topic 08
Leiden University	Ad	Europe	4303DBDMA Databases and Data Mining in Astronomy	Masters Astronomy and Data Science  Admission requirements Knowledge of the basics of astronomy Basic understanding of statistics Some knowledge of Python / Graduate / Astronomy Research - Astronomy and Data Science	<a href="https://studiegids.leidenuniv.nl/en/courses/show/5487/databases-and-data-mining-in-astronomy">https://studiegids.leidenuniv.nl/en/courses/show/5487/databases-and-data-mining-in-astronomy</a>	Dr. J. Brinckmann	data science	software	disciplinary/funder requirements	analysis				
			Astronomy is becoming ever more a data intensive science and preparing, interacting with and using databases and mining large data sets are core skills for astronomers of the future. This course will follow two strands. In one we will cover the SQL query language both for interaction with databases and for creating them with particular emphasis being placed on using the SDSS databases and their derivatives. The second strand focuses on machine learning techniques including principal component analysis, density estimation, classification techniques and neural networks. The focus of the course is practical and will be structured around a number of practical tasks.											
Lulea University of Technology	DCC	Europe	Digital Curation Course Aim	Undergraduate Graduate Minimum 120 ECTS of university studies including 60 ECTS in the areas of Computer Science, Systems Science, Archival Science or Library and Information Science	<a href="https://www.ltu.se/edu/course/B70B7007N57007N-Digital-bevarande-1.701147n/en&amp;kursView=uraplan">https://www.ltu.se/edu/course/B70B7007N57007N-Digital-bevarande-1.701147n/en&amp;kursView=uraplan</a>		data curation	data storage						
			The student will be able to:  Apply digital preservation concepts and models, including characteristics and activities, to describe digital preservation scenarios Analyse and describe problems and possibilities related to long-term digital preservation.  Contents  The students are introduced to the field of long-term digital preservation, and the concepts and models that are common in digital preservation. The course covers preservation concepts such as format, significant properties, integrity, authenticity and content types. The course also introduces models that are used in digital preservation, such as the Open Archival Information Systems (OAIS) model, which is widely used as a reference model in work with digital preservation, and therefore is good as a common base for discussions. The course discusses the concepts in the context of e-government and e-services, as well as from an archival institution point of view. Upon completion of the course, students will be familiar with generic concepts in digital preservation and, with the OAIS model as a foundation, have an understanding of contextual problems and possibilities.											
Presidio Graduate School	Listserve post ACRIL (Association of College and Research Libraries)	N. America	SUST6120 Data, Information Literacy, and Decision Making  What students learn in this course:  How to attain, evaluate, and utilize data – both qualitative and quantitative – relevant to addressing contemporary social, political, environmental and business problems/opportunities. How to use of decision analysis tools to characterize decision-making environments that involve risk or uncertainty. How to use software tools to visualize quantitative data and create compelling narratives.	MBA Curriculum	<a href="https://www.presidio.edu/academics/mba-sustainable-solutions/mba-curriculum/data-information-literacy-and-decision-making/">https://www.presidio.edu/academics/mba-sustainable-solutions/mba-curriculum/data-information-literacy-and-decision-making/</a>	Elizabeth Burke	software	data curation	analysis					
Robert Gordon University	DCC	Europe	Digital Curation MSc	Master's degree (MSc) PhD	<a href="https://www.rgu.ac.uk/research/research-degree-topics/1063-information-management">https://www.rgu.ac.uk/research/research-degree-topics/1063-information-management</a>		data curation	data literacy	ethics	data storage				
			We are also interested in the following broad Information Management research opportunities:  Cultural heritage (including digital cultural heritage and local studies) Digital Curation (including research data management; creative and cultural resources and business data) Information behaviour and use Information and digital literacy Information and publishing law Information for Political Engagement (including social media and political participation) Information ethics Knowledge Management Preservation of intellectual heritage Value and Impact of Public Libraries The development of new information professionals (including CPD and online learning spaces) Digital Curation Graduate Certificate											
University of Maine	DCC	N. America	The curriculum's conceptual trajectory traces the stages that a curator typically follows when caring for an artifact: 1) acquiring it; 2) representing its metadata; 3) making it accessible via a database-driven Web site; and 4) preserving it in the long term. TED 2500 DIGITAL CITIZENSHIP (3 credits)	Bachelors or Masters The Digital Curation curriculum offers students the opportunity to complete a 4-5 course (12-15 credit) program of study leading to a certificate, or to choose individual courses most relevant to their interests and career.	<a href="http://digitalcuration.umaine.edu/">http://digitalcuration.umaine.edu/</a>		data curation	metadata	data storage					
University of Nebraska Omaha	Ad	N. America	The course is an introduction to the basic tenets of digital citizenship including legalities, ethics, privacy and security. The course fosters an awareness of digital citizenship as a topic that impacts pedagogy and programming and reflects best practice in all types of learning communities.  This CLIP-accredited course is about the creation, management and use of digital libraries and resources. It will introduce you to the strategic thinking and project management skills you need for a successful career. You'll learn about digitization, repositories, web creation and how to design digital libraries people want to use.  Core modules Dissertation Designing Usable Websites Digital Multimedia Libraries Management and Strategy for Digital Libraries Information Retrieval: Search Engines and Digital Libraries Research Methods and Dissertation Preparation	Teacher Education (TED) - Undergraduate	<a href="https://online.nebraska.edu/program/university-of-nebraska-at-omaha-library-science-ba-ed-library-science-bachelor-1436403145992">https://online.nebraska.edu/program/university-of-nebraska-at-omaha-library-science-ba-ed-library-science-bachelor-1436403145992</a> <a href="https://online.nebraska.edu/program/university-of-nebraska-at-omaha-library-science-bgs-bachelor-bgs-1436403145980">https://online.nebraska.edu/program/university-of-nebraska-at-omaha-library-science-bgs-bachelor-bgs-1436403145980</a>		ethics	security	consultations/instruction/outreach					
University of Sheffield	DCC	Europe	CRJU 3401: Criminal Justice Data Analysis, 3 Hours An introduction to criminal justice data analysis including the logic of science, operationalization, sampling, coding, data entry, data file management, and microcomputer processing of research information. Will be taught in an electronic classroom, as facility availability permits.	MSc Digital Library Management	<a href="https://www.sheffield.ac.uk/postgraduate/taught/courses/science/electronic-digital-library-management-msc">https://www.sheffield.ac.uk/postgraduate/taught/courses/science/electronic-digital-library-management-msc</a>		data curation	data storage						
Valdosta State University	Ad	N. America	Strategies for Evidence-Based Nursing Practice Students will enroll in a 3.0 credit hour nursing elective course Strategies for Evidence-Based Nursing Practice designed to provide them the opportunity to acquire nursing research skills in data collection and management, data analysis and data interpretation, along with experience collaborating with nurses and other health care providers to implement evidence based practice.	Undergraduate Criminal Justice (CRJU) Prerequisite: CRJU 1100 and 2500 or permission of the instructor	<a href="http://catalog.valdosta.edu/undergraduate/courses-map/criminaljustice.pdf">http://catalog.valdosta.edu/undergraduate/courses-map/criminaljustice.pdf</a>		analysis	data curation						
Valdosta State University	Ad	N. America	Strategies for Evidence-Based Nursing Practice Students will enroll in a 3.0 credit hour nursing elective course Strategies for Evidence-Based Nursing Practice designed to provide them the opportunity to acquire nursing research skills in data collection and management, data analysis and data interpretation, along with experience collaborating with nurses and other health care providers to implement evidence based practice.	Undergraduate and Graduate Evidence-Based Practiced Strategies for Nursing and Health Care (project)	<a href="https://www.valdosta.edu/administration/lcas/gep/documents/gep1_nursing.pdf">https://www.valdosta.edu/administration/lcas/gep/documents/gep1_nursing.pdf</a>	Dr. Mauro Schiaret (Project Coordinator) Assistant Professor of Nursing	disciplinary/funder requirements	data curation	analysis					

School	Source	Region	Course(s)/Program(s)	Pre-Requisites / Program	Link(s)	Faculty	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07	Topic 08
Valdosta State University	Ad	N. America	MAIC 7100. Quantitative Research Methods in Communication. 3 Hours.  An advanced investigation of research methodologies used in the study of communication with in-depth study of research design and data management used to basic and applied research settings, study of descriptive, exploratory, and inferential statistical application, practical interpretations of computer-assisted data analysis.	Master of Arts in Communication (MAIC)	<a href="http://catalog.valdosta.edu/graduate/graduate-courses-instruction/maic/">http://catalog.valdosta.edu/graduate/graduate-courses-instruction/maic/</a>		data curation	analysis						
Valdosta State University	Ad	N. America	PADM 9060. Information and Data Management (3 hours credit) (DPA Core)  An examination of technology and information management, including hardware, software, and systems development. Particular emphasis will be placed on the management of information resources within the public sector and the role of E-Government.	Master of Public Administration Doctor of Public Administration (?)	<a href="https://www.valdosta.edu/pa/current-classes-and-syllabi.php">https://www.valdosta.edu/pa/current-classes-and-syllabi.php</a>	Gerald A. Merwin	software	infrastructure	disciplinary/funder requirements					
Valdosta State University	Ad	N. America	PADM 7110 Information Management  A survey of the issues and problems of information management. Emphasis is on modern developments in the generation, storage, classification, and transmission of information vital to the management of public organizations.	Master of Public Administration Doctor of Public Administration (?)	<a href="https://www.valdosta.edu/colleges/education/program-assessment-analytics-evaluation/documents/syllabi/PADM7110.pdf">https://www.valdosta.edu/colleges/education/program-assessment-analytics-evaluation/documents/syllabi/PADM7110.pdf</a>	Mary Eleanor Wickersham, D.P.A.	data curation	data storage						
Valdosta State University	Ad	N. America	SOCI 7021 Statistical Applications in Sociology  Evaluation of social statistics and data management for applied research problems. Students will use computers to build data files, explore archival datasets, and prepare written analyses of research problems. Students will gain skills in determining which statistics to use for particular research problems and designs, which statistics provide the most practical means for reading and interpreting data, and what computer software is available to facilitate data analysis in sociology. [Requires time in the computer laboratory.]	Master of Science in Sociology  Prereq: Successful completion of undergraduate statistics course or permission of the instructor.	<a href="https://www.valdosta.edu/soci/sociology/ms-grad-program/sociology-courses.php">https://www.valdosta.edu/soci/sociology/ms-grad-program/sociology-courses.php</a>		software	data curation	analysis					

data curation	18
data storage	10
analysis	7
infrastructure	6
ethics	4
software	4
disciplinary/funder requirements	3
consultations/instruction/outreach	2
data visualization	2
security	2
data literacy	1
data science	1
metadata	1

Selection of Non-LIS Course &amp; Program Topics



Pre-Requisites / Program	Masters	Bachelors	Graduate	Doctorate	N/A
Total	13	9	5	2	1
Masters Astronomy and Data Science					
Admission requirements Knowledge of the basics of astronomy Basic understanding of statistics Some knowledge of Python / Graduate / Astronomy Research - Astronomy and Data Science	1				
BSc Information and Library Studies - includes optional module in Digital Information		1			
Graduate Certificate in Digital Curation			1		
Undergraduate Criminal Justice (CRJU) Prerequisite: CRJU 1100 and 2500 or permission of the instructor		1			
Undergraduate and Graduate Evidence-Based Practiced Strategies for Nursing and Health Care (project)	1	1			
Library Science, BS Ed (Library Science) Bachelor of Science					
Library Science, BMSBachelor of Multidisciplinary Studies		1			
Master of Arts in Communication (MAIC)	1				
Master of Public Administration Doctor of Public Administration (?)	1			1	
Master of Public Administration Doctor of Public Administration (?)	1			1	
Master of Science in Sociology  Prereq: Successful completion of undergraduate statistics course or permission of the instructor.	1				
Master's degree (MA)	1				
Master's degree (MSc)	1				
MBA Curriculum	1				

Pre-Requisites / Program	Masters	Bachelors	Graduate	Doctorate	N/A
Undergraduate Graduate Minimum 120 ECTS of university studies including 60 ECTS in the areas of Computer Science, Systems Science, Archival Science or Library and Information Science		1	1		
MSc Digital Library Management	1				
MSc/PGDip Digital Curation MA/ PG Dip Archive Administration	1				
MSc/PGDip Digital Curation MA/ PG Dip Archive Administration	1				
N/A					1
Short Course		1	1		
Short Course		1	1		
Short Course		1	1		
Bachelors or Masters The Digital Curation curriculum offers students the opportunity to complete a 4-5 course (12-15 credit) program of study leading to a certificate, or to choose individual courses most relevant to their interests and career.	1	1			

Organization(s)	Focus	Who's Eligible (Living)	Time Commitment	Certificate? Degree?	Online? In person?	Cost	Link(s)	Instructor(s) Organization(s)	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07	Topic 08	Topic 09
ACRL	Building your Research Data Management Toolkit: Integrating RDM into Your Lifespan Work Research data management has emerged as a need among academic researchers and librarians as building skills in response. This one-day workshop assists librarians in identify their existing skills and resources that transfer to research data management services and then create a learning plan for the RDM specific knowledge needed to serve their student disciplines. Tools, tips, and tricks will be shared that facilitate partnerships on campus with disciplinary faculty and with other RDM service providers.	• Subject liaison librarians • Senior library administrators, middle management, and department heads • Technical services librarians and staff • Other campus partners involved in research, sponsored programs, technology transfer, DSI, or campus IT	1 day	N/A	In person	Recommended \$2,000 budget total for these expenses in addition to the course fee	<a href="http://www.ala.org/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/acrl/education/trackworkshops/trackworkshops</a>	Kristin Birney Christine Chen-Park Angel Cohen Megan Sepp Nelson Laura Pamela Sarah Wright	infrastructure	consultational instruction/nor east	disciplinaryfu r requirements		DMP				
ACRL	ACRL Research Data Management Roadshow Identify data within the research process and identify in order to articulate the role of the libraries in the management of data in research. Learn how to develop expertise in the nuances of disciplinary requirements for data management in order to educate their faculty and students about data best practices for their discipline. Articulate specific existing skills that they already possess as librarians which transfer to data services in order to begin building a toolkit of research data management skills. Identify campus partners in research data management in order to create an environment of research data management support for their faculty. Articulate the parts of a data management plan in order to describe its use as a living document within a research project. Apply their relevant prior knowledge of their disciplines in order to create a research data management review plan in order to facilitate faculty engagement.	intended for librarians who are seeking to engage with research data management for the first time, or who have a very basic knowledge of research data management	1 day	N/A	In person	Recommended \$2,000 budget total for these expenses in addition to the course fee	<a href="http://www.ala.org/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/acrl/education/trackworkshops/trackworkshops</a>	Kristin Birney Christine Chen-Park Angel Cohen Megan Sepp Nelson Laura Pamela Sarah Wright	infrastructure	consultational instruction/nor east	disciplinaryfu r requirements		DMP				
ACRL NNLM	See publication in folder ALA 2018 Annual Conference Implementing Linked Open Data in the Real World 1. Linked Data for Production Pathway to Implementation (LDP Phase 2) Presented by Philip Schreier, PhD (Stanford University) 2. Linked Data URI workflows at the Digital Virginia's DPLA Hub Presented by Jeremy Buttsack (University of Virginia) 3. Rare Materials Ontology Extension: from Modeling to Implementation Presented by Jason Kovar (Cornell University) & Francis Layne (Yale University)	Conference attendees	1 hour	N/A	In person	Conference registration \$160-475 ALA Member \$170 Other Member \$170 Non-Member \$210 - LTA Member \$140	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Linked Library Data Interest Group	metadata	data storage	open data						
ALA 2018 Annual Conference LITA	Python for Beginners: A Gentle and Fun Introduction	Conference attendees	4 hours	N/A	In person	Conference registration \$160-475 ALA Member \$170 Other Member \$170 Non-Member \$210 - LTA Member \$140	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Mark Eaton Robin Canale Dana Juan Pamela Lach Marvin Rita Vire	software	hands-on	metadata	analytics					
ALA ACRL_ACRL_DSS	ALA 2018 Annual Conference Bridging the Gap: Supporting Subject Librarians to Become Ambassadors for Digital Scholarship in Academic Libraries ALA 2018 Annual Conference Defense Against the Dark Arts: Techniques and Practices to Protect User Privacy When Conducting Data Analysis Librarians are faced with the competing needs to protect the privacy of their users while at the same time analyzing the use of library collections and services. This panel session will cover the threats to library user privacy posed by data analytics and the practices and techniques that libraries can adopt to mitigate these threats, including access control, aggregation, and de-identification.	Conference attendees	1 hour	N/A	In person	Conference registration \$160-475	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Leanne Annela Acker	data library	consultational instruction/nor east	software						
ALA LITA	ALA 2018 Annual Conference Youth Data Literacy at the Public Library Data literacy is a new area of education in the public library. Although many have advocated for the education of a data literate population, there is little research on what educational programs should look like, particularly those in the area of informal learning. This program presents the Exploring Data Literacy at the Public Library project, which explored how libraries can help teens gain an understanding of the data life cycle, including the processes involved in data creation, collection, and aggregation with related devices, platforms, and information services as well as their rights in a data-driven society. The project facilitated a series of data literacy workshops with library service librarians and youth at the Carnegie Library of Pittsburgh. We present new forms of the library related to data literacy and the organizations that support them and the expertise, staffing, and resources libraries must consider when building successful and sustainable services.	Conference attendees	1 hour	N/A	In person	Conference registration \$160-475	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Leanne Annela Acker	data library	consultational instruction/nor east	software						
ALA YALSA	ALA 2018 Annual Conference Youth Data Literacy at the Public Library Data literacy is a new area of education in the public library. Although many have advocated for the education of a data literate population, there is little research on what educational programs should look like, particularly those in the area of informal learning. This program presents the Exploring Data Literacy at the Public Library project, which explored how libraries can help teens gain an understanding of the data life cycle, including the processes involved in data creation, collection, and aggregation with related devices, platforms, and information services as well as their rights in a data-driven society. The project facilitated a series of data literacy workshops with library service librarians and youth at the Carnegie Library of Pittsburgh. We present new forms of the library related to data literacy and the organizations that support them and the expertise, staffing, and resources libraries must consider when building successful and sustainable services.	Conference attendees	1 hour	N/A	In person	Conference registration \$160-475	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Leanne Annela Acker	data library	consultational instruction/nor east	software						
ALCTS	Virtual Symposium on Research Data Management (2016) The Association for Library Collections and Technical Services (ALCTS) will present a two-day virtual symposium (Jan. 19 and 21) designed to provide a thoughtful, interactive, and actionable introduction to building and delivering research data management services. Attendees will learn about the primary activities and importance of data management across the scholarly lifecycle: the policies, trends, and technologies affecting researchers and the organizations that support them and the expertise, staffing, and resources libraries must consider when building successful and sustainable services. Session 1 focuses on understanding the principles and activities of research data management across the scholarly life cycle. Session 2 provides an introductory understanding of the essential, staffing, and resources libraries must consider when building sustainable RDM services. Both sessions are presented by Jennifer Dwyer, research data librarian, Emory University; Christopher Eaker, data curator librarian, University of Tennessee; Jackie Wilz, biomedical research specialist, Oregon Health & Science University and Robin Champagne, scholarly communication librarian, Oregon Health & Science University.	Open	2 days	N/A	In person Online materials	Conference registration \$160-475 ALA Member \$170 Other Member \$170 Non-Member \$210 - LTA Member \$140 Fee (single website) ALCTS member \$43, non-member \$59 Fee (complete series) ALCTS member \$59, non-member \$95 Groups, Agencies, or consortia that will watch the webinar together from one access point: Members: 129 Non-members: 200	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Jennifer Dwyer Christopher Eaker Jackie Wilz Robin Champagne	infrastructure	data curation	requirements	software					
ALCTS	ALCTS Webinars (examples from Spring) May 9: Introduction to R for Librarians, Part 1 May 23: Introduction to R for Librarians, Part 2 May 30: Introduction to R for Librarians, Part 3 ALCTS Web Courses April 10-May 29: Fundamentals of Preservation (FOP) session 2 May 7-June 1: Fundamentals of Collection Development and Management (FCDM) session 2 May 14-June 22: Fundamentals of Collection Assessment (FCA) session 2 June 18-July 27: Fundamentals of Acquisitions, session 3 ALCTS e-Forum May 22-27: Present and Future Challenges of Cataloging Special Collections Material Bridging Research Data into the Library: Expanding the Horizons of Institutional Repositories at ALCTS Webinar	Open	Dependent	N/A	Online	Free (single website) ALCTS member \$43, non-member \$59 Fee (complete series) ALCTS member \$59, non-member \$95 Groups, Agencies, or consortia that will watch the webinar together from one access point: Members: 129 Non-members: 200	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Paul A. Harris	software	data storage							
ALCTS	The focus of library-managed institutional repositories has so far been on document-like items (journal articles, preprints, theses, reports, working papers, etc.) but there is growing demand to expand their use into new genres such as scientific research datasets (genomic mappings, genomic data, microarrays, etc.). This webinar explores how IRs are including this type of collection, what librarians need to know in order to manage such collections, and a few case studies from MIT Libraries.	Open	N/A	N/A	Online materials	Free	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	MacKenzie Smith	data storage								
ALCTS CE	Research Data Management Best Practices and REDCap This webinar was presented on December 7, 2017. This webinar will begin with a short description of best practices for consideration in any research data collection/management plan. Once this information is covered, the webinar will transition to a demonstration and discussion of REDCap—a data management platform used by research teams across the world. Upon completion of this session, attendees will have learned: The importance of thinking through what work/duty requirements and logistical workflow before starting collection of data The importance of good recordkeeping and documentation of records for ongoing and shared research Practical implementation exercise and overview of REDCap—a data collection and management platform available at no cost to academic, non-profit and government institutional partners	Open	N/A	N/A	Online materials	Free	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Paul A. Harris	software	data storage							
ASIS&T/DCMI	Introduction to Metadata Application Profiles	ASIS&T members	1 hour	N/A	Online materials	ASIS&T membership \$40-160 Non-member \$140	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Karen Ciolek	metadata								
ASIS&T/DCMI	The Role of Dublin Core Metadata in the Expanding Digital and Analytical Skill Set required by Data-Driven Organizations	ASIS&T members	1 hour	N/A	Online materials	ASIS&T membership \$40-160 Non-member \$140 Individual member, single webinar \$110 Complete series	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Steve Brinner	analytics	metadata	data science						
Association for Library Collections and Technical Services (ALCTS)	Introduction to R for Librarians (3 parts)	Open	3 hours (1 hour each part)	N/A	Online	Free	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Clarke Edwards Kate Laflay Wen Wang Boon Jeremy	software	analytics	data visualization						
Australian National Data Service (ANDS) University of Melbourne Library	Health and Medical Data: Funders and Publishers (short Luncheon Elites webinars in May 2017) The Australian National Data Service (ANDS) is hosting a series of three short 30 minute Luncheon Health and Medical Data webinars in May 2017 which aim to support better management and publication of Health and Medical data.	Open	1.5 hours total (20 minute sessions)	N/A	Online	N/A	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Kenneth Peter O'Grady	disciplinaryfu r requirements	ethics	security						
Beyond the Numbers 2018 Federal Reserve Bank of St. Louis	Beyond the Numbers Conference: The Economic Data Ecosystem (includes Pre-Conference Workshop: Creating Data Library Lesson Plans)	Open	3 days	N/A	In person	Free	<a href="http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops">http://www.ala.org/ala/acrl/education/trackworkshops/trackworkshops</a>	Kenneth Peter O'Grady	disciplinaryfu r requirements	ethics	security						



Organization(s)	Focus	Who's Eligible	Time Commitment	Certificate? Degree?	Online? In person?	Cost	Link(s)	Instructor(s)/ Organizer(s)	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07	Topic 08	Topic 09	
Big Metadata Analytics: Setting an Agenda for Data-intensive Future (BMA2018)	Big metadata exists in bibliographic, indexing, and research data repositories and is an important part of the cyberinfrastructure supporting information and data management, discovery, sharing, and reuse. Its other role – as a data source for data-mining and knowledge discovery – is less widely known and is the one for management, discovery, sharing, and reuse of information and data. Research in big metadata analytics has been dynamic and encompasses a wide range of topics, methods, and applications that have been labeled as bibliometrics, citation analysis, scientometrics, and informatics. New family members of big metadata such as Linked Data are also gaining momentum.							Jan Qin, Syracuse University, Chair Chaoqi Chen, Chongqing University Jane Greening, Drexel University Jill Hurstley, Syracuse University Dietmar Borchert, University of Wisconsin at Milwaukee										
	As big metadata is pivotal for the data-intensive research, learning, health, and business, there has been a lack of education on what big metadata analytics encompasses, what theoretical, methodological, and computational issues need to be addressed, and how it might be applied to support decision making at team, organizational, and even national levels. Although using emerging metadata as the data source in research has been relatively simple, using metadata in data repositories is still a new area waiting to be explored. The purpose of this workshop is to bring current researchers who have used or are using big metadata in their projects to share their challenges, methods, datasets, and findings, through which we hope to produce a research agenda for a new research area – big metadata analytics.	Open	8 hours	No	In person	Cost of annual meeting	<a href="http://metadatacenter.org/BMA2018/BMA2018.html">http://metadatacenter.org/BMA2018/BMA2018.html</a>	analyst(s)	big data	metadata	security	infrastructure						
	Canadian Linked Data Summit Research Data Management Plans CESSDA Training can help you to write a plan, assess the data management needs of your particular project, and assist in identifying solutions for long-term preservation and data reuse. CESSDA Training events held regularly are:	Social scientists N/A	Open 3 days	No No	In person N/A	N/A N/A	<a href="http://www.researchdata.ca/linked-data-summit">http://www.researchdata.ca/linked-data-summit</a> <a href="http://www.researchdata.ca/rdmp">http://www.researchdata.ca/rdmp</a> <a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a>	N/A	metadata	security	infrastructure	data storage						
	Introduction to Research Data Management for Social Scientists Five steps towards digital preservation Leading an introductory workshop in digital preservation (main trainers) CESSDA Expert Seminar (in cooperation with CESSDA partners)	Social scientists N/A	Open 3 days	No No	In person N/A	N/A N/A	<a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a> <a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a>	N/A		data storage								
	Expert Tour Guide on Data Management This tour guide by CESSDA ERIC (the Consortium of European Social Science Data Archives European Infrastructure Consortium) aims to put social scientists like yourself at the heart of making their research data findable, understandable, sustainably accessible and reusable	Social scientists N/A	Open 3 days	No No	Online N/A	N/A N/A	<a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a> <a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a>	Ellen Lennarts (GAMU)	Project leader	data curation								
Community Standards for 3D Data Preservation (CS3DP) Forum 2	Research Data Management The CESSDA User Guide on research data management	Social scientists N/A	Open 3 days	No No	Online N/A	N/A N/A	<a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a> <a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a>	N/A	data curation	DMP	data storage	ethics						
	Data Archives and Digital Preservation The CESSDA User Guide on digital preservation	Social scientists N/A	Open 3 days	No No	Online N/A	N/A N/A	<a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a> <a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a>	N/A	data storage	metadata	security							
	The meeting will bring together researchers, librarians, curators, faculty, and other professionals from the United States and abroad to continue work toward development of interdisciplinary community developed standards for 3D data preservation. This event will include presentations and discussions on best practices, management strategies, metadata, interoperability, and accessibility of 3D data, as well as the organization of future efforts.	Social scientists N/A	Open 3 days	No No	Online N/A	N/A N/A	<a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a> <a href="http://www.researchdata.ca/rdmp/rdmp-training">http://www.researchdata.ca/rdmp/rdmp-training</a>	N/A	data storage	metadata	ethics							
Connected Data Collaborative	Data Basics This is the CTData Academy's introductory session designed to expand data literacy. Participants come away with a greater understanding of data collection and analysis and a more critical eye towards data encountered in everyday life.		Open	3 hours	No	In person	Free	<a href="http://datax.org/academy/phase2017/bbdatax/">http://datax.org/academy/phase2017/bbdatax/</a>	Rachel Leventhal-Werner Data Engagement Specialist Designs graphic CTData Academy									
	Digital Preservation Training Programme (DPTP) Our courses seek to demystify digital preservation: concepts that are hard to understand are clearly explained. We address the gap in skills/knowledge currently faced by archivists, records managers, librarians, curators, and museum staff.		Open	3 hours	No	In person	Free	<a href="http://datax.org/academy/phase2017/bbdatax/">http://datax.org/academy/phase2017/bbdatax/</a>										
	Courses that comprise the DPTP Online 2017: 1. What is Digital Preservation, and why do we need it? 2. Approaches to digital preservation 3. Metadata: the backbone for digital preservation 4. What are File Formats? 5. Tools for File Formats 6. Metadata types, and their uses for digital preservation 7. Storage configuration for digital preservation 8. Defining and understanding the User Community 9. Making digital content accessible for users 10. Legal issues affecting digital preservation 11. Preservation Planning, and tools that can help 12. The Trusted Digital Repository Alliance, and Audit Tools 13. Self Assessment Toolkit and their role in strategic planning 14. Risk Management and Risk Assessment	Open Business Managers, Archivists and Librarians	Open 3 hours	No No	In person N/A	Free N/A	<a href="http://datax.org/academy/phase2017/bbdatax/">http://datax.org/academy/phase2017/bbdatax/</a>											
Collector - University of London	Lunch and Learn with Code Ocean In preparation for the Code Ocean Workshops as part of Open Access Week, join us for an introduction and demo of Code Ocean.		Open	2 days worth of material	N/A	Online Face-to-Face	<a href="http://www.codeocean.com/">http://www.codeocean.com/</a>		data storage	metadata	security	ethics	infrastructure	consultation/ research/tech				
	Researchers and students can now not only make their code and data available for their academic papers, but also enable others to reproduce the results with a single click. Code Ocean is an easy-to-use reproducible repository and reproducibility platform that facilitates reproducibility replication, and reuse of research code.		Open	2 days worth of material	N/A	Online Face-to-Face	<a href="http://www.codeocean.com/">http://www.codeocean.com/</a>		data storage	metadata	security	ethics	infrastructure	consultation/ research/tech				
	This demo will provide an overview of the Code Ocean platform and explore benefits such as: Preparation: Code will work today, tomorrow, next week, next year Impact: Enable easy reuse of code to extend research Advanced: both: Scale of tasks which follow reproducibility best practices Collaboration: Code is easy to share and discover Speaker: Tamsie Heneghan, Director of Institutional Partnerships, Code Ocean		Open	2 days worth of material	N/A	Online Face-to-Face	<a href="http://www.codeocean.com/">http://www.codeocean.com/</a>		data storage	metadata	security	ethics	infrastructure	consultation/ research/tech				
	Integrating reproducible best practices into biomedical and clinical research: A hands-on workshop for researchers Courtney Library Open Access Week Program		Open	2 days worth of material	N/A	Online Face-to-Face	<a href="http://www.codeocean.com/">http://www.codeocean.com/</a>		data storage	metadata	security	ethics	infrastructure	consultation/ research/tech				
	With the aim of improving the reproducibility of the research they publish and fund, journals and funders are increasingly calling for published research to share associated materials. However, many researchers have not received training in the best practices and tools for reproducibility sharing their research.																	
Courtney Library Code Ocean	This workshop introduces reproducibility best practices for biomedical and clinical research. We will provide a survey of the history and current landscape of reproducibility and identify the barriers. We will present practical solutions and resources. Finally, we will demonstrate tools that help biomedical and clinical researchers overcome barriers to reproducibility and practice using these tools during hands-on activities, including how to share their research code using Code Ocean.	Biomedical or clinical researchers who use code in their research and wish to share it	2 hours	N/A	In person	Free	<a href="http://www.biology.barnard.edu/open2016/">http://www.biology.barnard.edu/open2016/</a>	Julie Goldman	security	software	hands-on							
	Workshop goals: Learn best practices for creating a reproducible biomedical or clinical research project Assess existing toolchains for transparent reporting of biomedical and clinical research Submit code and data for publishing on Code Ocean																	
	Good Enough Practices in Research Data Management Based on FAIR principles and "Good enough" practices in scientific computing	In process	In process	In process	In process	In process	Free	<a href="http://www.biology.barnard.edu/open2016/">http://www.biology.barnard.edu/open2016/</a>	Camie Corpe	discipline/r/n	new	informatics						
	ICC16 Workshop The session is aimed at librarians, researchers, administrators and technology support professionals who need to develop and advance their organization's support for research data management. Participants will gain practical knowledge about how to scope, implement, refine and sustain their RDM service along with pointers to useful free tools and resources.	Librarians, researchers, administrators and technology support professionals	1 day	N/A	In person	N/A	<a href="http://www.dcu.ie/~lib/icc16workshop/abstracts/">http://www.dcu.ie/~lib/icc16workshop/abstracts/</a>	N/A	discipline/r/n	new	informatics	consultation/ research/tech						
	Research Data Management Forum (RDMP) Our Research Data Management Forum events bring together researchers, digital repository managers, staff from library, information and research organizations, data curators, data centre managers, data centre managers, data scientists, research organizations and research networks		2 days	N/A	In person	N/A	<a href="http://www.dcu.ie/~lib/icc16workshop/abstracts/">http://www.dcu.ie/~lib/icc16workshop/abstracts/</a>	N/A	data science	security	data curation	infrastructure						
Data Curation Centre	Research Councils and funding bodies are increasingly requiring evidence of adequate and appropriate provisions for data management and curation in new grant funding applications. This half-day workshop provides an introduction to research data management and curation, the range of activities and roles that should be considered when planning and implementing new projects, and an overview of tools that can assist with curation activities. A key goal for these workshops is to bring together different communities of practice to share their experiences and to identify where, when and how they can best cooperate to meet data curation challenges.																	
	By the end of this workshop participants will be able to: understand funder's requirements for data management and sharing learn how research data management and curation can facilitate data sharing and help to increase citations understand what a data management plan is and how to go about completing one be aware of some of the free services and tools available	Internal to organizations Research support staff at the University of Cape Town	Half day 2 days	N/A N/A	In person Online materials	Free, internal N/A	<a href="http://www.dcu.ie/~lib/icc16workshop/abstracts/">http://www.dcu.ie/~lib/icc16workshop/abstracts/</a> <a href="http://www.dcu.ie/~lib/icc16workshop/abstracts/">http://www.dcu.ie/~lib/icc16workshop/abstracts/</a>	N/A	discipline/r/n	new	DMP	security						
	RDMP in South Africa - UCT Research Data Management Policy and Strategy Workshop		2 days	N/A	In person	Online materials	N/A	<a href="http://www.dcu.ie/~lib/icc16workshop/abstracts/">http://www.dcu.ie/~lib/icc16workshop/abstracts/</a>	Joy Davidson	discipline/r/n	new	informatics	security					
Data Curation Centre	RDMP in South Africa - UCT Research Data Management Policy and Strategy Workshop		2 days	N/A	In person	Online materials	N/A	<a href="http://www.dcu.ie/~lib/icc16workshop/abstracts/">http://www.dcu.ie/~lib/icc16workshop/abstracts/</a>	Joy Davidson	discipline/r/n	new	informatics	security					

[illegible]

Organization(s)	Focus	Who's Eligible	Time Commitment	Certificate? Degree?	Online? In person?	Cost	Link(s)	Instructor(s)/ Organization(s)	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07	Topic 08	Topic 09
	<p>Research data management</p> <p>It's an increasingly common condition of funding that the data associated with your work should be made available, accessible, discoverable, and usable.</p> <p>Our series of data management modules contain all the information you need to help you comply with these requirements. You will also discover how sharing research data can help with reproducibility issues and provide your peers with existing work to build on.</p> <p>The modules explain the solutions already in place to support you in sharing, and explore how you can cite data and why that can benefit your career. You will also be introduced to data management plans and receive advice on building an effective one.</p>																
Elsevier	<p>Research Academy</p> <p>Research Academy provides free access to countless e-learning resources designed to support researchers on every step of their research journey. Browse our extensive module catalogue to discover a world of knowledge, and earn certificates and rewards as you progress.</p> <p>How researchers store, share and use data</p> <p>Research data management</p> <p>How researchers store, share and use data</p> <p>Research cycle</p> <p>Content library</p> <p>Research preparation</p> <p>Writing for research</p> <p>Publication process</p> <p>Navigating peer review</p> <p>Communicating your research</p>	Open	2 hours	N/A	Online	Free	<a href="https://researchacademy.elsevier.com/research-academy/research-data/">https://researchacademy.elsevier.com/research-academy/research-data/</a>	N/A	data curation	DMP		data storage					
Elsevier	<p>During the interactive workshops, participants were able to take their own data through the best practice data life cycle following open data and FAIR principles. We also identified specific Australian needs in the research domains of plants, animals, microbes and health data that will help EMBL-ABR target future efforts and advice. Participants came away with a greatly improved understanding of where to find public research data, the importance of rich metadata in making their own data useful and discoverable, ontologies and controlled vocabularies, and where and how to deposit biological datasets in public repositories.</p>	Open	N/A	N/A	Online	Free	<a href="https://researchacademy.elsevier.com/abr-at-best-practice-workshop-series-the-data-life-cycle/">https://researchacademy.elsevier.com/abr-at-best-practice-workshop-series-the-data-life-cycle/</a>	N/A	consultational instruction/out		ethics	open data					
EMBL-ABR Best Practice workshop series: the data life cycle	<p>This series of five workshops covered the best practice data life cycle for researchers working with plants, animals, non-model microbial and medically relevant genomes. It aimed to provide insights into the different phases of the data life cycle and map what's present or missing in Australia for the specific biological domains in terms of open data and FAIR principles.</p> <p>Binding data to life: data management for the biomedicine sciences</p> <p>From June to August 2019 EMBL-ABR is writing a webinar series on data management for the biomedicine sciences. This series will introduce key concepts in data management, highlight common myths and provide biological researchers with tools and tips on how to approach data management in their own research.</p>	Biologists, bioinformatics	1 week	N/A	In person	N/A	<a href="https://ess.ebi.ac.uk/europe/materials/words-at-best-practice-workshop-series-the-data-life-cycle/">https://ess.ebi.ac.uk/europe/materials/words-at-best-practice-workshop-series-the-data-life-cycle/</a>	Contributors: Jyoti Khudankar, Omerik, Dan Butler, Suzanne Lewis	data curation		disciplinarityfu	open data					
EMBL-EBI	<p>Defaultline: Defaultline is a free suite of easy-to-use web tools for beginners that introduce concepts of working with data. These simple tools make it easy to work with data in for weeks, so you can learn how to find what data you need. Start using these tools today by clicking start at the bottom below. At the bottom of the page you will also find classroom activity guides and introductory videos to use in classroom, workshop, or other learning environment. You can see all of this and more at Defaultline.co</p>	Open	6 hours	N/A	Online materials	Free	<a href="https://www.embl.ac.uk/ebi/defaultline/">https://www.embl.ac.uk/ebi/defaultline/</a>	N/A	data curation	ethics	data storage	metadata	DMP			disciplinarityfu	requirements
Emerson College	<p>ESIP Events – Telecon &amp; Meeting Calendar</p>	Open	N/A	N/A	Online materials	Free	<a href="https://www.emerson.edu/proceedings/defaultline/">https://www.emerson.edu/proceedings/defaultline/</a>	Catherine Dignazio and Rafael Bhargava	software	data science	analysis						
ESIP	<p>The Data Management Training (DMT) Clearinghouse is a registry for online learning resources focusing on research data management.</p>	Free	N/A	N/A	Online	Free	<a href="https://www.esip.org/clearinghouse/defaultline/">https://www.esip.org/clearinghouse/defaultline/</a>	N/A	software	DMP	analytics	data curation	disciplinarityfu	infrastructure			
ESIP DMT Clearing house	<p>An introductory course for those people who want to support researchers in storing, managing, archiving and sharing their research data.</p>	Open	N/A	N/A	Online materials	Free	<a href="http://dmtrclearinghouse.esipfed.org/">http://dmtrclearinghouse.esipfed.org/</a>	N/A	DMP	metadata	ethics	data curation	disciplinarityfu	requirements			
Essentials 4 Data Support	<p>Essentials 4 Data Support is a product of Research Data Netherlands.</p> <p>It's a library in the US, Louis Felt, and several colleagues have developed resources to teach data literacy. Some are brief activities, one is a complete lesson (<a href="https://www.abdoul.org/teaching/keeping-it-real/">https://www.abdoul.org/teaching/keeping-it-real/</a>) using the ACCE Information Library format. We have a webpage (<a href="https://www.abdoul.org/teaching/keeping-it-real/">https://www.abdoul.org/teaching/keeping-it-real/</a>) that features all the resources that might be helpful for you.</p>	Open Data supporters	50 hours	For paid course	Hybrid	The online-only versions are free. The full course costs € 855, exclusive of VAT.	<a href="https://www.esipfed.org/clearinghouse/defaultline/">https://www.esipfed.org/clearinghouse/defaultline/</a>	N/A	data curation		each						
Federal Reserve Bank of St. Louis	<p>I'm very interested in this subject and look forward to hearing about others' work and resources.</p>	Open	N/A	N/A	N/A	Free	ACRL Listserve	Kathie Steinhilb									
Fort Hays State University Foreign Library	<p>A three-step approach to practical trainings on Open Access policy development and Research Data Information Library course (in progress).</p> <p>1. Introduction to Research Data Management for Social Scientists</p> <p>2. World Wide Web training seminar on Open Access policy development in Europe</p> <p>3. Developing e-learning materials and an online training course on RDM</p>	Subject fields of Social Sciences and Humanities	1 day	N/A	In person	N/A	<a href="https://www.fort-hays-state-university.edu/foreign-library/defaultline/">https://www.fort-hays-state-university.edu/foreign-library/defaultline/</a>	Ashley Recker, Natasha	disciplinarityfu	requirements	DMP	metadata	ethics	data storage	open data	infrastructure	
FOSTER	<p>Managing and Sharing Research Data</p> <p>Data-driven research is becoming increasingly common in a wide range of academic disciplines, from Archaeology to Zoology, and spanning Arts and Science subject areas alike. To support good research, we need to ensure that researchers have access to good data. Upon completing this course, you will understand which data you can make open and which need to be protected. You will know how to go about setting a data management plan. You will understand the FAIR principles. You will be able to select which data to keep and find an appropriate repository for them. You will learn tips on how to get maximum impact from your research data.</p>	Open account needed	N/A	Badge	Online	Free	<a href="https://www.fosteropen.org/courses/defaultline/">https://www.fosteropen.org/courses/defaultline/</a>	N/A	disciplinarityfu	requirements	DMP	data storage					
FOSTER Plus	<p>Data Protection and Ethics</p> <p>This course covers data protection in particular and ethics more generally. It helps you understand the basic principles of data protection and introduces techniques for implementing data protection in your research processes. Upon completing this course, you will know what personal data are and how you can protect them. You will understand the basic principles of data protection and introduces techniques for implementing data protection in your research processes. Upon completing this course, you will know what to consider when developing consent forms. You will know how to store your data securely. You will know how to anonymise your data.</p>	Open account needed	N/A	N/A	Online	Free	<a href="https://www.fosteropen.org/courses/defaultline/">https://www.fosteropen.org/courses/defaultline/</a>	N/A	disciplinarityfu	requirements	DMP	data storage					
FOSTER Plus	<p>Research Data Management Program</p> <p>The Harvard Library Research Data Management Program connects members of the Harvard community to services and resources that support the research data lifecycle, to help ensure that Harvard's multi-disciplinary research data is findable, accessible, interoperable, and reusable (FAIR).</p>	Open account needed	N/A	N/A	Online	Free	<a href="https://www.fosteropen.org/courses/defaultline/">https://www.fosteropen.org/courses/defaultline/</a>	N/A	disciplinarityfu	requirements	DMP	data storage					
Harvard Library	<p>Introduction to gathering, managing, analyzing, and visualizing textual data</p> <p>Hands-on experience with text analysis tools, including the HTICR off-the-shelf algorithm, datasets, such as the HTICR Extracted Features, and using the command line to run basic text analysis processes</p>	Librarians and LIS professionals	7 hours	N/A	In person	Free	<a href="https://www.harvard.edu/defaultline/">https://www.harvard.edu/defaultline/</a>	Colin Boyd	data curation	DMP	software						
Hathi Trust	<p>Topics include:</p> <p>Introduction to gathering, managing, analyzing, and visualizing textual data.</p> <p>Hands-on experience with text analysis tools, including the HTICR Analyzer/ off-the-shelf algorithm and datasets, such as the HTICR Extracted Features.</p> <p>Using the command line to run basic text analysis processes.</p>	Librarians and LIS professionals	7 hours	N/A	In person	Free	<a href="https://www.hathi-trust.org/defaultline/">https://www.hathi-trust.org/defaultline/</a>	N/A	data curation	analysis	software						
HMS (Courtesy Library)	<p>Research Rigor &amp; Reproducibility: Understanding the Data Lifecycle for Research Success</p> <p>Best Practices for Biomedical Research Data Management</p> <p>This course is designed to address present and future data management needs.</p> <p>At the end of this course, you'll be able to:</p> <p>Describe the wide variety of types of research data.</p> <p>Describe the research data lifecycle.</p> <p>Explain the documentation needed to facilitate accessibility and reproducibility of research findings.</p> <p>Identify intent of data policies that have been emerging and identify the major government funding agencies currently requiring data management plans.</p> <p>Identify the basic principles that govern both human subject research and use of animals for research.</p> <p>Describe tools available to foster collaboration and sharing of resources.</p> <p>Explain why managing and sharing research data is important.</p> <p>Distinguish the characteristics of long-term storage, curation and preservation of research data.</p> <p>Understand the support role an information professional can play in research data management planning and recognize the potential partnerships between librarians and researchers.</p> <p>Target Audience: This course is aimed at a broad audience including librarians, biomedical researchers, undergraduate and graduate biomedical students, and all other interested individuals.</p>	Postdocs Graduate students	2 hours	Certificate	In person	Recorded	Free	<a href="https://www.hms.harvard.edu/defaultline/">https://www.hms.harvard.edu/defaultline/</a>	Julie Goldman, Elaine Martin	data curation	security	disciplinarityfu	requirements	infrastructure	ethics	data storage	



Organization(s)	Focus	Who's Eligible	Time Commitment	Certificate? Degree?	Online? In person?	Cost	Link(s)	Instructor(s)/ Organization(s)	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07	Topic 08	Topic 09
	Research Data Management As a relatively new area, data management is a place where information professionals can make a difference by bringing our expertise to a timely need. The purpose of this course is to explore the processes of data production and data management, and the role of LIS professionals and institutions in supporting data producers. The course is general towards academic librarians, but can be more broadly applicable. The course will cover the following topics:  The role and lifecycle of research data Standards and policies in data management Data sharing and data reuse Data selection and appraisal Repositories and registries Data management standards Tools for writing and/or related data management plans The role of institutions and institutional libraries																
Library Juice Academy	During the course students will be exposed to various policy reports and current research, and will be expected to prepare a data management plan appropriate for submission to NSF/NIH/NIH, a data retention policy, or an institutional data management policy. Data Juice Research Data Management Training for Librarians Created by the UK Data Archive, Digital Curator Centre, Purdue University and the University of Edinburgh, the course provides course content, exercises (individual and group), podcasts of the original lectures and independent study assignments.	Open; geared towards academic librarians, but can be more broadly applicable	~1 month	2.25 CEUs or 22.5 PDHs	Online	\$250	<a href="http://libraryjuiceacademy.com/002_data-management.php">http://libraryjuiceacademy.com/002_data-management.php</a>	Jillian Wallis	data curation	infrastructure	security	data storage	DMP				
MANTRA Research Data Management Training		Open	N/A	N/A	Online	Free	<a href="http://mantraonline.org.uk/04training.html">http://mantraonline.org.uk/04training.html</a>	N/A	DMP	metadata	data storage	security	ethics				
Midwest Collaborative for Library Services	Linked Data Summit	Open	1 day			N/A	<a href="http://www.mclsl.org/linkeddata-summit/linkeddata-summit-2016-06-06-07.html">http://www.mclsl.org/linkeddata-summit/linkeddata-summit-2016-06-06-07.html</a>	N/A	infrastructure	data storage	open data	security					
Midwest Data Librarian Symposium (MDLS) - Iowa State University (Ames, IA)	MDLS is a low-cost, 2-day, hands-on, unconference style event for Midwest librarians who support research data management and research data services (RDS) at their institutions. The greater data community, not limited to data librarians, is invited to present interactive sessions at this year's event. Presenters from all disciplines and regions are encouraged to apply.	Midwest librarians who support research data management and research data services (RDS) at their institutions	2 days	N/A	In person	Professionals: \$30 Students: free	<a href="http://www.midwestdatalibrariansymposium.org/abstracts">http://www.midwestdatalibrariansymposium.org/abstracts</a>	N/A	hands-on	ethics	software	infrastructure	consultational instruction/outreach				
Mountain West Data Librarian Symposium (University of Colorado Boulder)	Mountain West Data Librarian Symposium Data Science for Undergraduates: Opportunities and Options Recommend all undergrads have data literacy or acumen with core competencies. They offer a list of 13 listed categories: Need to upgrade faculty perceptions of data science Need places to share best practices - websites, journals See ethics as a main competency Empower in future workforce need to understand data literacy to be effective They have identified key educational programs and have referenced citations to these programs. Data Matters Data Matters gives students the chance to learn about a wide range of topics in data science, analytics, visualization, curation, and more from expert instructors. Data management and visualization workshops (Margaret Heitman) This grant provided participant support for two workshops on the increasing importance of data and data visualization for the growth of eScience. The workshops took place over multiple days in September and October 2010 in Reno/NV, Washington and in Berkeley, California on October 10, 2010. The primary purpose of the workshops was to gather community input into recommendations of the Data Task Force of the Advisory Committee for Cyberinfrastructure (ACC).	librarians and research data specialists, students	2 days	N/A	In person	registration is \$35 with a discounted student rate of \$15	<a href="http://www.mwdsymposium.org/abstracts">http://www.mwdsymposium.org/abstracts</a>	Thomas Auch Schultz Matheson-ICIT Knowledge Center University of Nevada, Reno	data literacy	data visualization	data curation	data sharing	consultational instruction/outreach				
NAISEM Division of Behavioral and Social Sciences and Education NAISEM Math and Statistics National Consortium for Data Science in collaboration with North Carolina State University (RNC) and the O'Brien Institute for Research in Social Science at UNC-Chapel Hill		Open	N/A	N/A	Online	Free	<a href="http://www.naisem.org/naisem-2016-abstracts">http://www.naisem.org/naisem-2016-abstracts</a>	N/A	data science								
		Open	Week-long series of one and two-day courses	N/A	In person	\$200+	<a href="http://www.naisem.org/naisem-2016-abstracts">http://www.naisem.org/naisem-2016-abstracts</a>	N/A	data science	visualization	software	analytics					
National Science Foundation University of Michigan School of Information	Start date: 9/1/2010 End date: 11/30/2012 is discussing making data librarians and data literacy the theme of their January conference. The focus will be "working with people who work with data" and discuss the role of the data librarian across institutions. "What is the role of a data librarian today? Diverse perspectives on the work of data librarians in different settings/institutions."	Open	Multiple days	N/A	In person	N/A	<a href="https://www.nsf.gov/eod/eod12943">https://www.nsf.gov/eod/eod12943</a> <a href="https://www.nsf.gov/eod/eod12943">https://www.nsf.gov/eod/eod12943</a>	Margaret Heitman	data curation	infrastructure							
NEABIST		Open	1 day	No	In person	Free (?)											
Network of Data and Information Curation Communities (NDICC)		Open	N/A	N/A	Online materials	Free	<a href="http://www.ndicc.org/ndicc/">http://www.ndicc.org/ndicc/</a>	Louise Patterson	data curation								
New England Collaborative Data Management Curriculum	NECCMC is an instructional tool for teaching data management best practices to undergraduates, graduate students, and researchers in the health sciences, sciences, and engineering disciplines. Each of the curriculum's seven online instructional modules aligns with the National Science Foundation's data management plan recommendations and addresses universal data management challenges. Included in the curriculum is a collection of actual research cases that provides a discipline specific context to the content of the instructional modules. These cases come from a range of research settings such as clinical research, biomedical data, an engineering project, and a qualitative behavioral health study. Additional research cases will be added to the curriculum as an ongoing basis. Each of the modules can be taught as a stand-alone class or as part of a series of classes. Modules are designed to supplement the content of the institutional modules to meet the learning needs of their students and the policies and resources at their institutions.	Undergraduate students, graduate students, and researchers in the health sciences, sciences, and engineering disciplines	N/A	N/A	Online materials	Free	<a href="http://www.ndicc.org/ndicc/">http://www.ndicc.org/ndicc/</a>	Elaine Rosen Martin Julie Grogan Doreen M. Kiefer Andrew T. Cochrane Currently, Foundations are planned to a group of New England librarians, including:	disciplinary/fu nldg requirements	DMP	hands-on	security	data storage	metadata	ethics		
New England Collaborative Data Management Curriculum	Built upon the Frameworks for a Data Management Curriculum developed by the Lamar Shattler Library and the George C. Gordon Library at Worcester Polytechnic Institute, the NECCMC is designed to address present and future researcher data management learning needs.		N/A	N/A	Online materials	Free	<a href="http://www.ndicc.org/ndicc/">http://www.ndicc.org/ndicc/</a>	Thao Anand, co-founder University of Massachusetts Amherst Patricia Gordon University of New Hampshire Amherst O'Toole, Worcester Polytechnic Institute Marianne Ruffin Brandeis University									
New England Research Data Management Roundtable	9th Research Data Management Roundtable on Monday, September 17, 2016 Research Data Management Hands-on Workshop	Open	6 hours	No	In person	Free	<a href="http://www.ndicc.org/ndicc/">http://www.ndicc.org/ndicc/</a>	Kevin Reed Nicole Contarelis Alisa Sunka	DMP	hands-on							
New York University	This project includes material designed for teaching a 1.5 hour research data management workshop. It involves a case study that requires workshop participants to navigate messy data to identify the data that corresponds with the data represented in a figure from an article. Workshop attendees are then required to modify the messy data to follow research data management best practices. Research Data Management This course will provide you with training on the research data management (RDM) topics listed below in a structured context. The material presented begins as an NIM-funded research study to assess material for teaching RDM to librarians. It is designed to prepare you to understand and subsequently teach RDM at your own institution, and offers strategies for identifying opportunities to teach RDM in your own environment.	Open	1.5 hours	N/A	Online materials	Free	<a href="http://www.ndicc.org/ndicc/">http://www.ndicc.org/ndicc/</a>										
New York University	At the end of each module there is a link to a Teaching Toolkit that provides librarians with a set of slides, and evaluation materials to teach RDM at your institution. Data Access Webinar The interactive webinar will cover data access functionality for beginners and advanced users. Jupyter Notebooks will be used to illustrate the topics with informational slides and sample code.	NYU School of Medicine affiliates	N/A	N/A	Online materials	Free	<a href="http://www.ndicc.org/ndicc/">http://www.ndicc.org/ndicc/</a>	Kevin Reed Nicole Contarelis	disciplinary/fu nldg requirements	DMP	data storage	infrastructure	consultational instruction/outreach				
NLM Training Office National Library of Medicine (NLM) and the National Network of Libraries of Medicine Training Office (NTO)	NLM Training Office National Library of Medicine (NLM) and the National Network of Libraries of Medicine Training Office (NTO) NLM Research Data Management Webinar Series Big Data in Healthcare: Exploring Emerging Roles The Big Data in Healthcare: Exploring Emerging Roles course will help health sciences librarians better understand the issues of big data in clinical outcomes and other new health sciences data sets in the service setting. Course content comes from information shared by the presenters at the March 7, 2016 NLM Using Data to Improve Clinical Patient Outcomes Forum, the speakers from the NLM NCI Data Curation Management Journal Club and NLM NCI Data Curation Management Journal Club articles, NLM's Nursing Research Boot Camp, recommended readings from previous contexts, and Cognitive Class Big Data Fundamentals online course. Biomedical and Health Research Data Management Training for Librarians The course provides basic knowledge and skills for librarians interested in helping patrons manage their research data. After this course will improve your ability to identify or extend research data management services at your institution. Familiarity with the research lifecycle is recommended but not required.	Open (limited to 40) Health sciences librarians	8 weeks	9	Online	Free	<a href="http://www.ndicc.org/ndicc/">http://www.ndicc.org/ndicc/</a>	Derek Johnson Elaine Vitale	big data	infrastructure							
NLM Training Office National Library of Medicine (NLM) and the National Network of Libraries of Medicine Training Office (NTO)		Open	1 hour per session	1 MLA CE Contact your par session	Online	Free	<a href="http://www.ndicc.org/ndicc/">http://www.ndicc.org/ndicc/</a>	N/A	data curation	infrastructure	software	data storage					
NLM Training Office National Library of Medicine (NLM) and the National Network of Libraries of Medicine Training Office (NTO)		Open (limited to 40) Health sciences librarians	8 weeks	9	Online	Free	<a href="http://www.ndicc.org/ndicc/">http://www.ndicc.org/ndicc/</a>	Derek Johnson Elaine Vitale	big data	infrastructure							
NLM Training Office National Library of Medicine (NLM) and the National Network of Libraries of Medicine Training Office (NTO)	The major goal of this course is to provide an introduction to data issues and policies in support of developing and implementing or enhancing research data management training and services at your institution. This material is essential for decision-making and implementation of these programs, particularly instructional and reference services. The course topics include an overview of data management, choosing appropriate metadata descriptors or taxonomies for a dataset, addressing privacy and security issues with data, and creating data management plans.	Health Sciences librarians in US	7 weeks	MLA CE	Online asynchronous	Free	<a href="http://www.ndicc.org/ndicc/">http://www.ndicc.org/ndicc/</a>	Joan Van Der Voort Shirley Zhao	data curation	DMP	security	data storage	infrastructure	metadata	disciplinary/fu nldg requirements		

Organization(s)	Focus	Who's Engage?	Time Commitment	Certificate? Degree?	Online? In person?	Cost	Link(s)	Instructor(s) Topic(s)/ Organizer(s)	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07	Topic 08	Topic 09
Northumbria University	Research Data Management: An Overview OCLC Research Mini-Symposium on Research Data Management to this mini-symposium in which guests learned about recent collaborative work done in the area of RDM services by OCLC Research Library Partnership. David Minor complemented with specific updates on developments at their respective institution. This symposium is of interest to RDM service providers, administrators, and policy makers throughout the Netherlands.	Open	N/A	N/A	In person	N/A	<a href="http://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/">http://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/</a>	N/A	data storage	data curation	disciplinarily/rdr requirements						
OCLC		Completed	1 day	N/A	In person	N/A	<a href="http://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/">http://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/</a>	N/A	infrastructure								
OCLC	Works in Progress Webinar: Understanding Institutional Research Data Management RDM Services (1 of 3 part series) This webinar introduces the ways in which RDM services are developing at research universities worldwide and offers a model of RDM services to support discussion and decision making.	OCLC Research Library Partnership (Those who are not affiliated with the OCLC RLP will be able to access a recording after the event.)	1 hour	N/A	Online	N/A	<a href="https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/">https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/</a>	Brian Levine, Senior Research Curatorial, OCLC Research	infrastructure								
OCLC	Works in Progress Webinar: Collections as Data Join this webinar to learn more about the concept of collections as data and hear an update on current work on the Collections as Data. Part 2 of three guest project.	OCLC Research Library Partnership (Those who are not affiliated with the OCLC RLP will be able to access a recording after the event.)	1 hour	N/A	Online	N/A	<a href="https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/">https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/</a>		data curation								
OCLC	Research Information Management in the US University Enterprise Environment: A Case Study from the University of Minnesota-Twin Cities This webinar will be of interest to librarians involved in reporting and data warehouse professionals, and academic administrators who are eager to more accurately aggregate the scholarly output of their institutions. Join us to learn how University of Minnesota is helping others on campus save time and improve accuracy in faculty activity reporting, academic program review, current awareness and more.	OCLC Research Library Partnership (Those who are not affiliated with the OCLC RLP will be able to access a recording after the event.)	1 hour	N/A	Online	N/A	<a href="https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/">https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/</a>		data curation	infrastructure							
OCLC	Works in Progress Webinar: Visualizing Library Services - Case Studies from Ohio State and Yale This webinar will be of interest to those looking to think about new ways to use data, and those interested in thinking about the impact and future of library services.	OCLC Research Library Partnership (Those who are not affiliated with the OCLC RLP will be able to access a recording after the event.)	1 hour	N/A	Online	N/A	<a href="https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/">https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/</a>		data visualization								
OCLC	Works in Progress Webinar: All About Open Join this webinar to learn about the challenges and solutions of presenting cultural heritage materials as open data, and discover OpenA, a website hosting open data from cultural heritage institutions in the Philadelphia area. Context-driven Approach to Data Curation for Reuse Workshop	OCLC Research Library Partnership (Those who are not affiliated with the OCLC RLP will be able to access a recording after the event.)	1 hour	N/A	Online	N/A	<a href="https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/">https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/</a>		data storage	open data							
OCLC	All who are interested in learning more about the practical approaches and trade-offs to data curation given the needs of readers and repositories are welcome to attend this free workshop. Reckonresearch WDC16 Resulting from an NSF grant and designed for graduate students, seven short videos are presented online, which are accompanied by in-person class meetings. The videos and course materials are also available online for other class sites.	Free	3 hours	N/A	Online	N/A	<a href="https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/">https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/</a>		data curation	data storage	security						
Online Data Management Course from the University of Minnesota	Reckonresearch WDC16 Resulting from an NSF grant and designed for graduate students, seven short videos are presented online, which are accompanied by in-person class meetings. The videos and course materials are also available online for other class sites.	Free	N/A	N/A	Online	Free	<a href="https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/">https://www.oclc.org/researchlibrary/partnership/2015/04/06/oclc-research-library-partnership-2015/</a>		data curation	DMP	data storage	ethics					
ROA	From discipline specific venues for researchers to wide-ranging conferences and forums for data professionals, many groups are investigating data skills. There is a global interest in convergence or what skills are needed for different basic, effective training methods, and where to find appropriate educational materials to help make data more accessible, open, transparent when possible, and FAIR (findable, accessible, interoperable, reusable). On 19 April 2018, a one-hour webinar will offer introductory information about a collaboratively developed Belmont Forum Data Skills Curriculum Framework by a key author for the Framework, Vicky Lucas. Ms. Lucas' presentation will be followed by Q&A and discussion on collaboration opportunities, development options, and related topics. RCMRose was a JISC funded project to produce taught and continuing professional development CPD learning materials in Research Data Management (RDM) tailored for information professionals. RCMRose developed and adapted learning materials about RDM to meet the specific needs of lesson libraries in university libraries, both for practitioners, CPD and for embedding into the postgraduate taught (PGT) curriculum. Its deliverables included OER materials suitable for learning in multiple modes, including face-to-face and self-directed learning. RCMRose brought together the UK's leading cohort with a practitioner community based on the White Rose University Consortium's Libraries at the Universities of Leeds, Sheffield and York. Development of content and teaching was iterative, based on a highly participative curriculum development process and with a strong strand of student evaluation of learning materials and activities. Deliverables included: OER for information professionals which can be reused by other LIS education and with a version for self-supported Continuing Professional Development. As of April 2015 a new version of the learning materials is now available - click on RCMRose 2015 tab! Slides from the 2015 version are also available on slideshare. The project was funded by JISC for one year from July 2012 to June 2013. In 2014, we conducted RCMRose's sister project WikEds with RDM.	Free	N/A	N/A	Online	Free	<a href="https://www.oalib.org/en/webinars/roa-data-skills-curriculum-framework">https://www.oalib.org/en/webinars/roa-data-skills-curriculum-framework</a> <a href="http://www.rcmrise.ac.uk/about-us">http://www.rcmrise.ac.uk/about-us</a>	Vicky Lucas	disciplinarily/rdr requirements	consultational/restriction/each							
RCMRose	RCMRose developed and adapted learning materials about RDM to meet the specific needs of lesson libraries in university libraries, both for practitioners, CPD and for embedding into the postgraduate taught (PGT) curriculum. Its deliverables included OER materials suitable for learning in multiple modes, including face-to-face and self-directed learning. RCMRose brought together the UK's leading cohort with a practitioner community based on the White Rose University Consortium's Libraries at the Universities of Leeds, Sheffield and York. Development of content and teaching was iterative, based on a highly participative curriculum development process and with a strong strand of student evaluation of learning materials and activities. Deliverables included: OER for information professionals which can be reused by other LIS education and with a version for self-supported Continuing Professional Development. As of April 2015 a new version of the learning materials is now available - click on RCMRose 2015 tab! Slides from the 2015 version are also available on slideshare. The project was funded by JISC for one year from July 2012 to June 2013. In 2014, we conducted RCMRose's sister project WikEds with RDM.	Open	N/A	N/A	Online	Free	<a href="https://www.rcmrise.ac.uk/about-us">https://www.rcmrise.ac.uk/about-us</a>		infrastructure	disciplinarily/rdr requirements	hands-on	DMP					
Repository Support Project	Setting up a repository / Growing a repository Fundamentals of Research Data Curation Description: We are charged with providing services around research data curation! Not sure where to start? In this course you'll examine the main considerations needed to deliver. This includes training and consultation, infrastructure, tools and applications. In particular, emphasis will be paid to have all of these contribute to supporting a local research data life cycle. Learning Outcomes: Upon completion of this course, you'll be able to: Then research data curation services that are appropriate for your environment Make decisions regarding relevant tools and services Make recommendations for future work or development for your organization	Open	N/A	N/A	Online	Free	<a href="https://www.rcmrise.ac.uk/about-us">https://www.rcmrise.ac.uk/about-us</a>		data storage	metadata							
SAA	We are charged with providing services around research data curation! Not sure where to start? In this course you'll examine the main considerations needed to deliver. This includes training and consultation, infrastructure, tools and applications. In particular, emphasis will be paid to have all of these contribute to supporting a local research data life cycle. Learning Outcomes: Upon completion of this course, you'll be able to: Then research data curation services that are appropriate for your environment Make decisions regarding relevant tools and services Make recommendations for future work or development for your organization	Archival practitioners	1 hour	1 ARC	Online	N/A	<a href="https://www.saa.ac.uk/archives/activities/online/courses/2015/04/06/oclc-research-library-partnership-2015/">https://www.saa.ac.uk/archives/activities/online/courses/2015/04/06/oclc-research-library-partnership-2015/</a>	Rued Giedt, David Minor	data curation	software	infrastructure						
Science Boot Camp for Librarians Southeast Coastal Library, Gulf Coast Research Laboratory University of Southern Mississippi	2018 Science Boot Camp for Librarians Southeast During the "Data Blitz," we will learn about ETL/ETLware, research data management, and student learning assessment.	Open	1 hour	N/A	In person	N/A	<a href="https://www.saa.ac.uk/archives/activities/online/courses/2015/04/06/oclc-research-library-partnership-2015/">https://www.saa.ac.uk/archives/activities/online/courses/2015/04/06/oclc-research-library-partnership-2015/</a>	Denise A. Whitel	data library	consultational/restriction/each	disciplinarily/rdr requirements						
SLA	SLA 2018 Annual Conference Library Capacity Building Skills for Data Savvy Librarians - Full Day (9:00am-4:30pm lunch and breaks provided)	Open	1 day	N/A	In person	N/A											

Organization(s)	Focus	Who's Eligible	Time Commitment	Certificate? Degree?	Online? In person?	Cost	Link(s)	Instructor(s)/ Organization(s)	Topic 01	Topic 02	Topic 03	Topic 04	Topic 05	Topic 06	Topic 07	Topic 08	Topic 09
Social Science Librarians Boot Camp Tisch Library, Tufts University	8th Annual Social Science Librarians Boot Camp Copyright for Social Science Librarians Learn the basics of copyright law and what you need to know about research publication, copyright and data, e-resource licensing, fair use, and library and classroom copyright exceptions. (Patricia Zimmerman)							Patricia Condon									
	Mapping Census Data Participants will create a choropleth map of population density using census data. Learn how to explore and find spatial data to join to census data to create the choropleth map using ArcGIS. Two online free platforms will be introduced to generate multiple scenarios to be added to the map. The workshop is hands-on. No laptop is necessary. (Sharon Sarraf-Mohamed)							Sharon Sarraf-Mohamed									
	Research Data Management in the Social Sciences Librarians are more frequently being asked to help with and review the data management plans (DMPs) that are now required by most funding agencies as part of grant proposals. The workshop focuses on questions to consider when creating DMPs for social science research. The session is interactive. At the conclusion of the workshop, attendees will be more familiar with the components of a DMP, and be able to describe key data management issues arising challenges in research involving human subjects and approaches to addressing those challenges. (Patricia Condon)	Open	1 day	N/A	In person	\$30-60	<a href="https://lib.its.tufts.edu/rdm2019/">https://lib.its.tufts.edu/rdm2019/</a>	Katie Zimmerman	DMP	disciplinaryfu	requirements	security	ethics	software	hands-on		
Social Science Librarians Boot Camp University of Richmond	Social Science Librarians Boot Camp-Richmond, VA Edition SSILBC RVA is a low-cost, one-day conference for librarians, academic technologists, and others supporting the work of social scientists that will offer an inside look at the processes and tools used by researchers in the social sciences. Additionally, we'll get hands-on experience with some of the tools & processes of the trade -- for example, software for quantitative, qualitative, and GIS analysis and visualization, research and data management tools, survey procedures, considerations for grant applications, and more.	Open	1 day	N/A	In person	\$20-50	<a href="https://lib.its.tufts.edu/rdm2019/">https://lib.its.tufts.edu/rdm2019/</a>	N/A	software	disciplinaryfu	requirements	analysis					
Southeast Data Librarian Symposium	Southeast Data Librarian Symposium I have covered some data accessing and analysis for our undergraduate Journalism program. How is an online or how we have approached this (very much) at the introductory level? Before the session students watch the "How we found the work place to park in New York City - using big data" TED Talk. A good way to introduce using data and seeing how it can be useful and interesting. <a href="https://www.ted.com/talks/andrew-chen-how-we-found-the-work-place-to-park-in-new-york-city-using-big-data">https://www.ted.com/talks/andrew-chen-how-we-found-the-work-place-to-park-in-new-york-city-using-big-data</a> I direct them to a LiGuide with Data resources for them to explore and see walk through some searches, usually using the New York State data (examples include: use of state parks, local restaurant health inspections, and graduation rates) <a href="http://researchguides.plattburgh.edu/c.php?g=54001&amp;p=3897964">http://researchguides.plattburgh.edu/c.php?g=54001&amp;p=3897964</a> I show them the basics of using the filters on those sites and then how to download the data sets and use them in Excel. Students then are given a worksheet with some topics they they have to find data on and explain how they might incorporate it into a newspaper story on that topic. The next class period we have one of the certified technology trainers come in and show the students how to use print labels to further analyze the data.	Open	2 days	N/A	In person	\$50	<a href="https://lib.its.tufts.edu/rdm2019/">https://lib.its.tufts.edu/rdm2019/</a>	N/A	infrastructure	data	visualization	software	data curation	consultational	reduction/out	each	open data
SUNY Plattsburgh Faculty Library	Doing Data Better Now	Undergraduate students	N/A	N/A	Online resources	Free for students	ACRL Libserv	Michael Toff	data science	big data	consultational	reduction/out	each				
The University of Melbourne	Researcher's data needs are varied and complex, which is why we've put together some hints and tips to help you manage your data effectively. Research Data Management and Sharing MOOC After completing this course, learners will understand the diversity of data and their management needs across the research data lifecycle, be able to identify the components of good data management plans, and be familiar with best practices for working with data including the organization, documentation, and storage and security of data. Learners will also understand the impact and importance of archiving and sharing data as well as how to assess the feasibility of opportunities.	Open	N/A	N/A	Online materials	Free	<a href="https://www.coursera.org/learn/data-management">https://www.coursera.org/learn/data-management</a>	N/A	DMP	metadata	data storage	security					
The University of North Carolina at Chapel Hill, The University of Edinburgh (via Coursera)		Open	11 hours	With payment	Online	Free Paid for certificate	<a href="https://www.coursera.org/learn/data-management">https://www.coursera.org/learn/data-management</a>										
UK Data Service	Video tutorials	Open	N/A	N/A	Online materials	Free	<a href="https://www.ukdataservice.ac.uk/data/tutorials">https://www.ukdataservice.ac.uk/data/tutorials</a>	N/A	analysis	data storage	DMP	consultational	reduction/out	each			
UK Data Service	Prepare and manage data Managing research data (including Research Data Bootcamp) The Research Data Service is part of the Library and supports pan-University research activities to help realise the impact of research on society. We help individual researchers or major interdisciplinary research initiatives to plan, manage and share research data. We're happy to help with data management plans and provide data management training for research staff and researchers. But what if you have collected sensitive or confidential data? For many researchers, the sensitivity of research data is one of the main barriers to data sharing. Fear of violating ethical or legal obligations, lack of knowledge about disclosure control and the time required to anonymise data to a suitable standard often prevent valuable datasets from seeing the light of day. In this two-hour awareness raising course, we introduce how to collect, share, store, and protect the sensitive data you may encounter as part of your work.	Open	N/A	N/A	Online materials	Free	<a href="https://www.ukdataservice.ac.uk/data/tutorials">https://www.ukdataservice.ac.uk/data/tutorials</a>	N/A	data curation	DMP							
University of Bristol	Working with personal & sensitive research data Researchers often are prevented to share their research data and make it accessible to other researchers. But what if you have collected sensitive or confidential data? For many researchers, the sensitivity of research data is one of the main barriers to data sharing. Fear of violating ethical or legal obligations, lack of knowledge about disclosure control and the time required to anonymise data to a suitable standard often prevent valuable datasets from seeing the light of day. In this two-hour awareness raising course, we introduce how to collect, share, store, and protect the sensitive data you may encounter as part of your work.	Open	N/A	N/A	Online materials	Free	<a href="https://www.ukdataservice.ac.uk/data/tutorials">https://www.ukdataservice.ac.uk/data/tutorials</a>	N/A	data storage	security	ethics	disciplinaryfu	requirements				
University of Edinburgh	This course is open to all staff and PGR students Handling data using SPSS The aim of this half-day course is to show you the facilities provided by SPSS so you help with the management of your research data and to suggest some ways of keeping a record of your data work and getting your data out of SPSS, whether by the long haul or by the back door. The course is open to all postgraduate research students who are interested to learn how to use SPSS to handle their data.	Open to all staff and PGR students	2 hours	N/A	In person	Free for staff and PGR students	<a href="https://www.ukdataservice.ac.uk/data/tutorials">https://www.ukdataservice.ac.uk/data/tutorials</a>	N/A	ethics	security	data curation						
University of Edinburgh	This course is open to all students Creating a data management plan for your grant application This is a short course open to all research staff (including postgraduate researchers) who are interested in finding out about data management plans and creating a data plan for their grant application or projects.	Open to all students	Half day	N/A	In person	Free for students	<a href="https://www.ukdataservice.ac.uk/data/tutorials">https://www.ukdataservice.ac.uk/data/tutorials</a>	N/A	analysis	software	data storage						
University of Edinburgh	If you have five (minimum) to eight (maximum) people who want to learn more about creating a data management plan for a particular funded (past future) we can use a session specifically for them. Managing your research data: why is it important and what should you do? This workshop is aimed at all research staff and post graduate research students. It will shed light on the following questions: What is research data management? Why is it important? What are the funding and University requirements from researchers? What is a data management plan? Why is it important to have one? Where should you store your sensitive data securely? How could you make your data available openly? What are the options? What are the practical and tools available to you at the University to help manage your research data effectively and efficiently? This course is open to all staff and PGR students.	Open to all staff and PGR students	N/A	N/A	Online (in person for 8-9 people)	Free for staff and PGR students	<a href="https://www.ukdataservice.ac.uk/data/tutorials">https://www.ukdataservice.ac.uk/data/tutorials</a>	N/A	DMP	disciplinaryfu	requirements	consultational	reduction/out	each	data curation		
University of Edinburgh	Good practice in research data management This course is aimed at all postgraduate researchers who are interested in finding out how to manage their research data effectively and efficiently during their research projects. The course explores key data management topics (including day-to-day data management, backup and security, metadata and documentation, data sharing and presentation, and data management planning) based on the MANTIS course. It includes presented content, group discussions and exercises, and is delivered by means of a participative seminar where you will be encouraged to contribute and share ideas. You will also have a chance to work on a simple data management plan for your own research project.	Open to all staff and PGR students	N/A	N/A	In person	Free for PGT and PGR students	<a href="https://www.ukdataservice.ac.uk/data/tutorials">https://www.ukdataservice.ac.uk/data/tutorials</a>	N/A	hands-on	metadata	data curation	data storage	DMP	security			
University of Edinburgh University of Exeter (via Coursera) University of York (via Coursera) University																	

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Eligibility	Eligibility count
Open	104
Affiliates	25
Researchers	11
Librarians and other LIS professionals	10
N/A	7
Conference attendees	6
Invite	1

[illegible]

Documentation	
N/A	150
Certificate	6
Continuing Education Credits	6
Badge	1

<b>Online? In person?</b>	
In person	54
Online	44
Online materials	41
Hybrid	18
N/A	5

Cost	
Free	79
N/A	43
Free for affiliates	11
Conference registration	
\$160-475	4
\$2,000	2
\$225-415	2
\$40-140	2
\$43-206	2
Conference registration	2
\$50	1
\$99	1
\$250	1
\$1,700	1
\$125-200	1
\$140-210	1
\$15-35	1
\$20-50	1
\$200+	1
\$30-60	1
\$43-310	1
\$53-79	1
£420-700)	1
£840 -£3180	1
Free-\$30	1
Free-€695	1

data curation	52
disciplinary/funder requirements	46
DMP	45
data storage	44
infrastructure	36
security	33
software	32
ethics	26
consultations/instruction/outreach	23
metadata	21
analysis	16
data science	10
hands-on	10
open data	10
data visualization	9
data literacy	6
big data	4
data sharing	1