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| **Lesson Plan for Module #1: Overview of Research Data Management** |
| LearnerObjectives | By participating fully in this class, students will be able to:1. Recognize what research data is and what data management entails
2. Recognize why managing data is important for your research career
3. Identify common data management issues
4. Learn best practices and resources for managing these issues
5. Learn about how the library can help you identify data management resources, tools, and best practices
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| Lecture Content | 1. Define research data
2. Outline reasons for managing and sharing research data
3. List common data management issues
4. Describe best practices and resources for managing data
5. List library data services
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| Activities | 1. Create a data management plan for one of the [cases](http://library.umassmed.edu/necdmc/research_cases) using [the simplified data management plan](http://library.umassmed.edu/necdmc/necdmc_simplified_dmp.docx) template discussed on page 10-11.
2. Have participants explore the data services and research support services located at their institutions.
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| Assessment | Reflect on the data management issues presented in module 1. Think about the research process conducted in your research setting (e.g., lab, clinic, field station, etc.) Discuss what you see as the major data management issues in your particular setting.For non-researcher audiences, have participants reflect on the data management issues present in the case used for activity 1. |
| Readings | 1. University of Edinburgh. Defining Research Data. <http://datalib.edina.ac.uk/xerte/play.php?template_id=9>
2. University of Oregon Libraries. Defining Research Data. <http://library.uoregon.edu/datamanagement/datadefined.html>
3. University of Minnesota Libraries. Funding Agency and Data Management Guidelines <https://www.lib.umn.edu/datamanagement/funding>
4. White House OSTP (2013). Increasing Access to the Results of Federally Funded Scientific Research <http://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf>
5. Promoting the Stewardship of Research Data, Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age (2009):  pages 95-99 <http://books.nap.edu/openbook.php?record_id=12615&page=95>
6. Why Share Data? UK Data Archive <http://www.data-archive.ac.uk/create-manage/planning-for-sharing/why-share-data>
7. Joint Data Archiving Policy. <http://datadryad.org/pages/jdap>
8. Introduction: A Revolution in Science: p.11-13 from Harnessing the Power of Digital Data for Science and Society (2009)   <http://www.nitrd.gov/about/harnessing_power_web.pdf>
9. Office of Research Integrity, US Department of Health and Human Services. Guidelines for Responsible Data Management in Scientific Research. <http://ori.hhs.gov/images/ddblock/data.pdf>
10. DataONE Best Practices. <http://www.dataone.org/best-practices>
11. Example Data Management Plan <http://www.dataone.org/sites/all/documents/DMP_MaunaLoa_Formatted.pdf>
12. NSF Data Management Plan Requirements <http://www.nsf.gov/eng/general/dmp.jsp>
13. Simon Hodson and Sarah Jones (2013). Seven Rules of Successful Research Data Management in Universities <http://www.theguardian.com/higher-education-network/blog/2013/jul/16/research-data-management-top-tips>
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