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Teaching Data Management to Health Science, Science & Engineering Students

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Teaching Data Management to Health Science, Science & Engineering Students

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Planning a Data Management Curriculum

Joint project of the libraries at the University of Massachusetts Medical School and Worcester Polytechnic Institute
Initial Planning

Education Committee

• Faculty
• Librarians
• Graduate student
• Consultants: curriculum, instructional design, evaluation
Preliminary Activities

• Literature search
• Student interviews
• Faculty interviews
• Presentations by data librarians
Findings

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Course Modules

Introduction: Overview of Research Data Management

Module 1
Data: Types, Stages, and Formats

Module 2
Metadata

Module 3
Data Storage, Backup, and Security

Module 4
Legal and Ethical Considerations

Module 5
Data Sharing and Reuse Policies

Module 6
Archiving and Preservation
Research Case Scenarios

- Aerospace engineering
- Biomedical lab research
- Clinical study on hip replacements
Customizing Data Management
Instruction

- Mix and match modules as needed by discipline/course level
- Provide lesson plans for diverse modes of delivery: online, in person, hybrid
- Case based activities and assessment
- Readings
- Assignments
Next steps...

• Develop a prototype online course module

• Lesson plans and research case scenarios will be available online

• With implementation funds: develop course content, pilot modules, develop data repository for data generated from student projects

http://library.umassmed.edu/imls_grant.cfm