



Teaching, Learning, and Education Datasets at the University of Michigan

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Datasets at UM

Are all over the place:

- ITS
- CRLT
- Office of Budget and Planning
- Office of Student Life
- Individual academic units
- Developers of specific software systems

At this time there is no federated single-access point for TLE datasets.

Dataset 1: Data Warehouse (excellent)

- Covers a range of educational operational data
- Courses, grades, relationship to transcripts, financial, etc.
- Highly structured, very clean
- Access through SQL, business objects, or CSV export
- <http://www.mais.umich.edu/reporting/datasets.html>

Dataset 2: Learning Management (good)

- Three learning management systems
 - ctools (Sakai): Being phased out, historical data only past year 2016
 - Canvas: Started Fall 2014
 - Coursera: Off-campus MOOC platform
- Each has both relational data (e.g. grades, assessment, content) and semi-structured clickstream data
- Limited data dictionary support (<https://beta.inshosteddata.com/docs>)

Dataset 3: Student Attitudes (ok)

- Cooperative Institutional Research Program ([CIRP](#))
- U-M Asks You ([UMAY](#))
- Various surveys (e.g. from [CRLT](#))
- LS&A Entrance Survey

Datasets 4 & 5: Other

Other ed tech tools:

- E2coach
- CAEN Lecture Capture
- Echo 360
- Clickers
- Kaltura

External datasets of interest:

- National Student Clearinghouse

Things to consider for MIDAS

1. When working with data about students for research you need to apply for IRB permission (easy)
2. Getting access to data requires approval from Data Stewards (usually easy)
3. Data validity is linked in part to the purpose under which it was collected (student mindset, time in academic career, instructions from facilitator)
4. Data size is modest until you get clickstream data
5. Lots of excitement about making cross dataset data more easily available