SCHOOL OF DENTISTRY
UNIVERSITY OF MICHIGAN

An Exploration of Learning Analytics at the School of Dentistry

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Goals:

Phase one: Exploratory DATA ANALYSIS	• Data analysis of admission and course performance scores to identify remediation needs. • Identification of data mining issues such as centralized availability of data.
Phase two: PILOT INTERVENTION	• Incorporation of pilot intervention projects that will facilitate learning analytics using software such as LectureTools: ANKI; LessonLAMS etc. • Results of intervention used for BEST PRACTICES guide for teaching and learning
Phase 3: LEARNING ANALYTICS IMPLEMENTATION PLAN	• Implementation plan for School wide use of a dashboard that will address the following: Centralized storage of student data; a learning analytics software that addresses all the SOD remediation issues and facilitates learning for all students.

Data Discovery:

- College transcripts for UM graduates
- Historical academic data such as ACT scores

UM Data Warehouse

- Course grades
- GPA throughout the 4 years of dental school

Registrar's Office

- Course assignment grades
- Interview Data

In House Data

Moving Forward:

- Explore ways to store academic data in a unified space such as amazon web services
- Using Excel capabilities to create a descriptive model for the data we do have
- Going beyond one cohort and include data for more student groups
- Testing descriptive models on various student cohorts
- Pilot interventions using Learning Analytics software within courses