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Learning Analytics

ideas for LAS_Online

Learning Analytics: Collecting and Using Data to Improve Learning

- ❖ student background info (Banner)
- ❖ placement and pre-testing (Banner)
- ❖ courses previously taken, currently enrolled courses (Banner)
- ❖ individual assignments, exams, grades (LMS)
- ❖ subsequent courses (Banner)

Analytics are useful for multiple audiences

- ❖ Students: behavior feedback, registering for courses
- ❖ Instructors: who students are, how they behave, tailor the learning environment, intervene when needed
- ❖ Administrators: operate programs, measure impact
- ❖ Researchers: research teaching, learning, university operations

Sample Analytics Projects

- ❖ provide instructors, students with information about registration patterns (courses taken together, courses taken in sequence)
- ❖ “signals” project: create “intervention thresholds” in courses, in programs based on LMS data (grades, login frequency, etc)
- ❖ program evaluation: build tools to access information about cohorts of students. ID methods for creating meaningful comparison groups.

Program Evaluation examples

- ❖ Impact of Honors program: does participation in honors have impact on GPA or distribution of majors?
- ❖ “better than expected” : institutional data used to construct predictive models of student performance in a course. ID outliers who do better (or worse), investigate why.
- ❖ “study habits survey” : students surveyed about their study habits. Create a profile of the “successful” student, based on data. Feed information back to students.