**Course Clustering Analysis**

Inspired from <https://www.blackboard.com/resources/pdf/datasheet-a4larchetypes-20170425_n.pdf>

Features used for clustering:

|  |  |
| --- | --- |
| **Count Features (for building clusters)** | **Features for cluster evaluation** |
| announcements | announcement views |
| Assignments ( graded & non-graded) | wiki views |
| course sections | assignment views |
| ta enrollments | external tool views |
| wiki pages | gradebook views |
| attachments | pages views |
| modules | files views |
| rubrics | external url views |
| Groups | **More to add here** |
| quiz questions |  |
| external tools |  |
| collaborations |  |
| ltis |  |
| lti urls |  |
| module urls |  |
| outcomes |  |
| quizzes |  |
| discussion entries |  |
| web conferences |  |
| calendar events |  |
| Location (On-campus or Online) |  |

**Dataset Description**:

Total of 4300 courses in canvas.

Filtered for active courses with student count between 0 and 700. Excluded ASU Orientation courses. Current course count is 1666 courses, of which, 323 are online and 1349 are on-campus.

**Clustering**

K-Means and agglomerative hierarchical clustering.