Data Visualization: Transforming Numbers into Action

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Questions for consideration

• How can analytics be used to visualize and promote effective learning behaviors?
• How can faculty easily visualize whether or not their students are succeeding or at risk?
• How do students perceive their own progress and understand whether or not they are succeeding?
• How do learners decide what to focus on to improve?
# Reporting Post-mortem

[Image of a university registration form]

## Digital Collections at the University of Maryland

Amboo who?
# Retention Center

**Students currently at risk**

<table>
<thead>
<tr>
<th>Missed Deadlines</th>
<th>Grades Alert</th>
<th>Activity Alert</th>
<th>Access Alert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jerry Westley</td>
<td></td>
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</tbody>
</table>

- 1 deadline has been missed by more than 5 days
- 3 deadlines have been missed by more than 2 days
- Midterm Test has been missed by more than 2 days

**Students I am monitoring**

- **Kerry Kwok**
  - Last Access: 3 days ago
  - Activity average: 10% below
  - Grade average: 10% above
  - Missed Deadlines: None

- **Jerry Westley**

- **Hillary Lopez**

**Other information I am monitoring**

- **Grade Rule**
  - Overall Course Grade
    - 15% > Class Average
    - 3 students meeting rule

- **Missed Deadlines**
  - Weekly Discussion
Surfacing alerts
Reflecting on faculty engagement
Heidi Pfannenstiel Compared to Course Average

ENME 303 Topics in Engineering Mathematics (01.10436/02.10437/03.13106... (01)

Your Total Activity Compared to the Course Average

- Course Accesses
  - You: 173
  - Avg: 74.1

- Time in Course (Min.)
  - You: 5354
  - Avg: 1350.3

- Interactions
  - You: 877
  - Avg: 401.1

- Submissions
  - You: 12
  - Avg: 10.5

- Grade Center Total Score
  - You: 95.9%
  - Avg: 82.6%

Your Course Accesses vs. Avg.

Your Submissions vs. Avg.

Your Interactions vs. Avg.

Your Time in Course (min.) vs. Avg.
Khan Academy Knowledge Map
Perceptions of learning progress