Blackboard

Blackboard Analytics

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Use Cases for Learning Analytics & Learners' Data

Student Retention & Success

Identify students at risk of failing courses, graduating late or dropping out

Developing Reflective Learners

Providing students with insights into their own learning

Course Management & Delivery

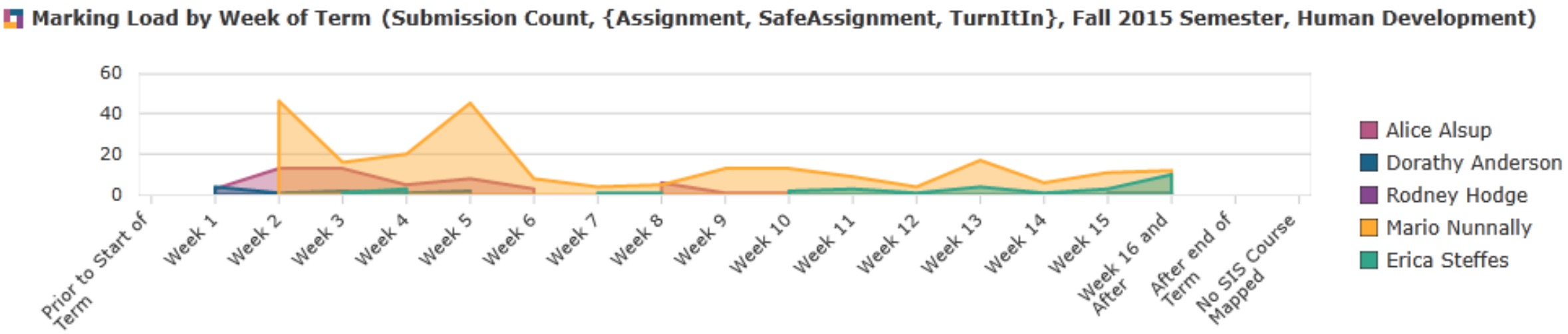
Providing instructors with info on engagement & performance of students

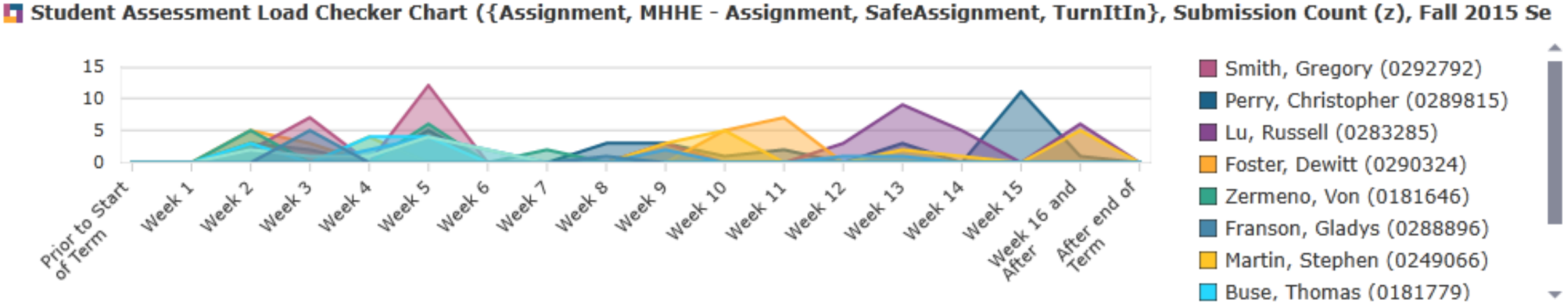
Institutional Effectiveness

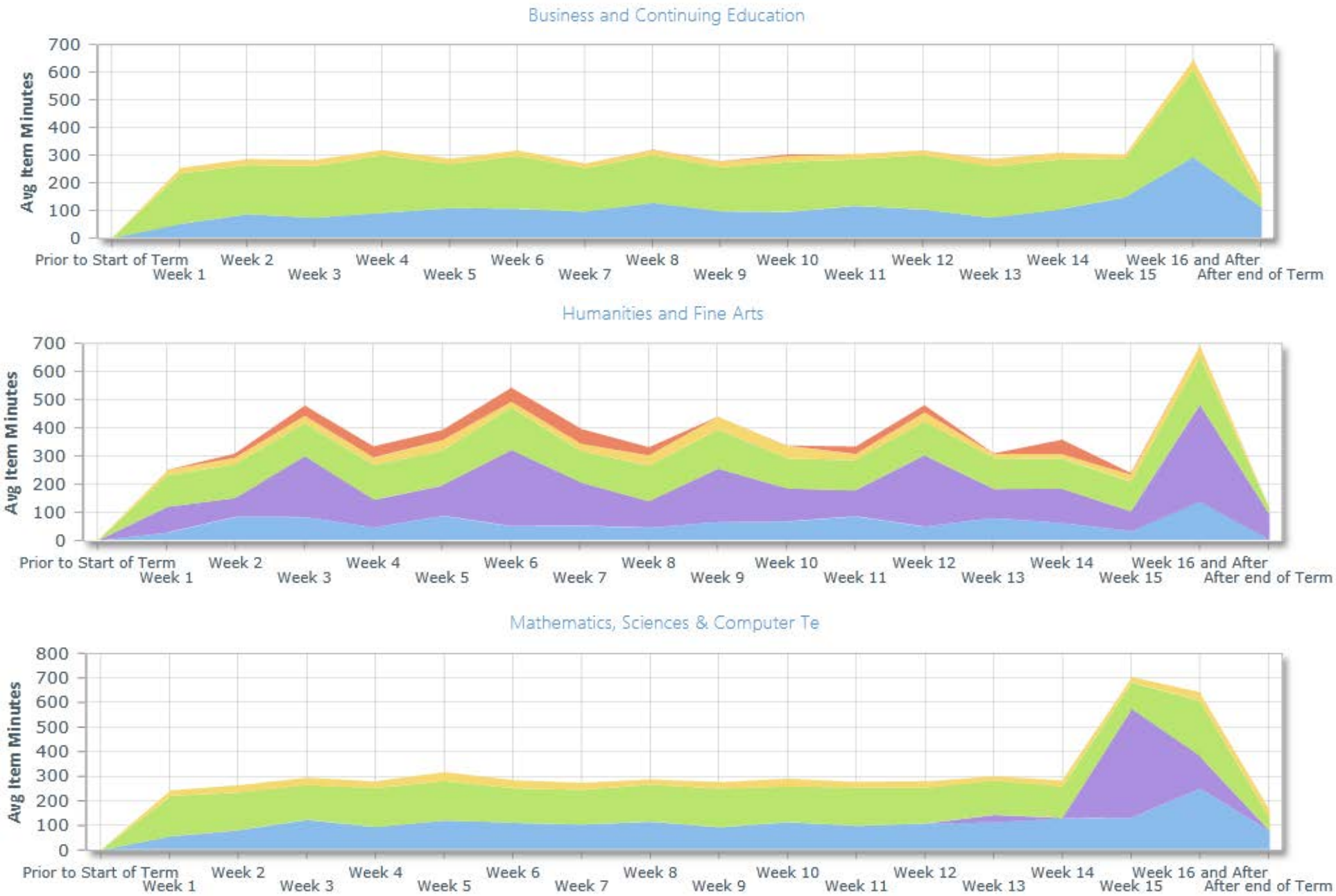
Identify issues with educational design, delivery and consistency of Blackboard Learn use

Institutional Effectiveness

Assessment Bottlenecks







Discussion Forum Content Assignment Test Wiki

Student Retention & Success

Which students aren’t going to pass their courses ?

Which students will not graduate on time?

Which students are likely to leave?

Which students aren’t submitting activities (assessments, assignments, discussion posts)?

Which students are engaged but aren’t performing well?

Predictive analytics defined

"Predictive analytics is the process of learning from historical data in order to make predictions about the future (or any unknown)."

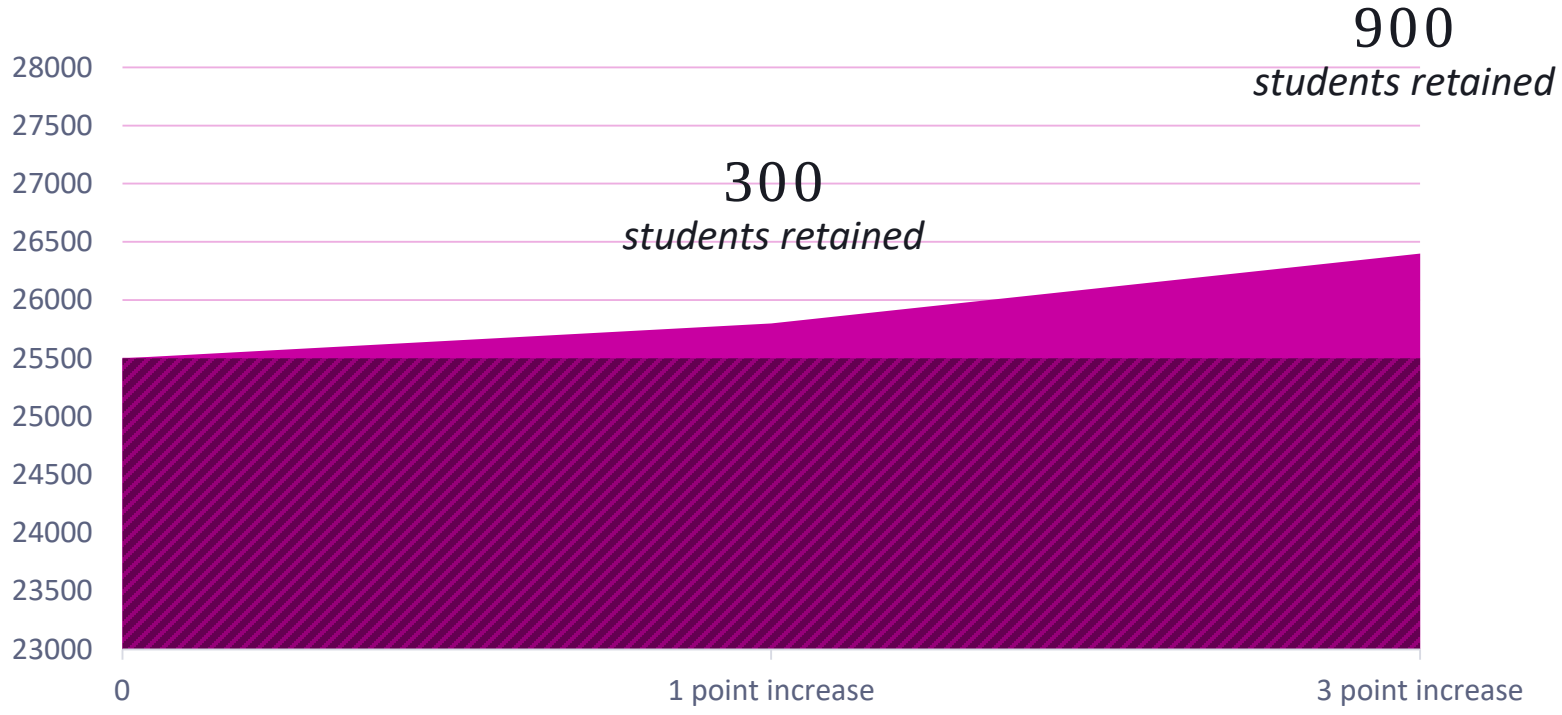
Rock Heal+h report

Predictive Analytics is Everywhere

Context & Research

1-3 point improvement

for schools with a proactive advising model

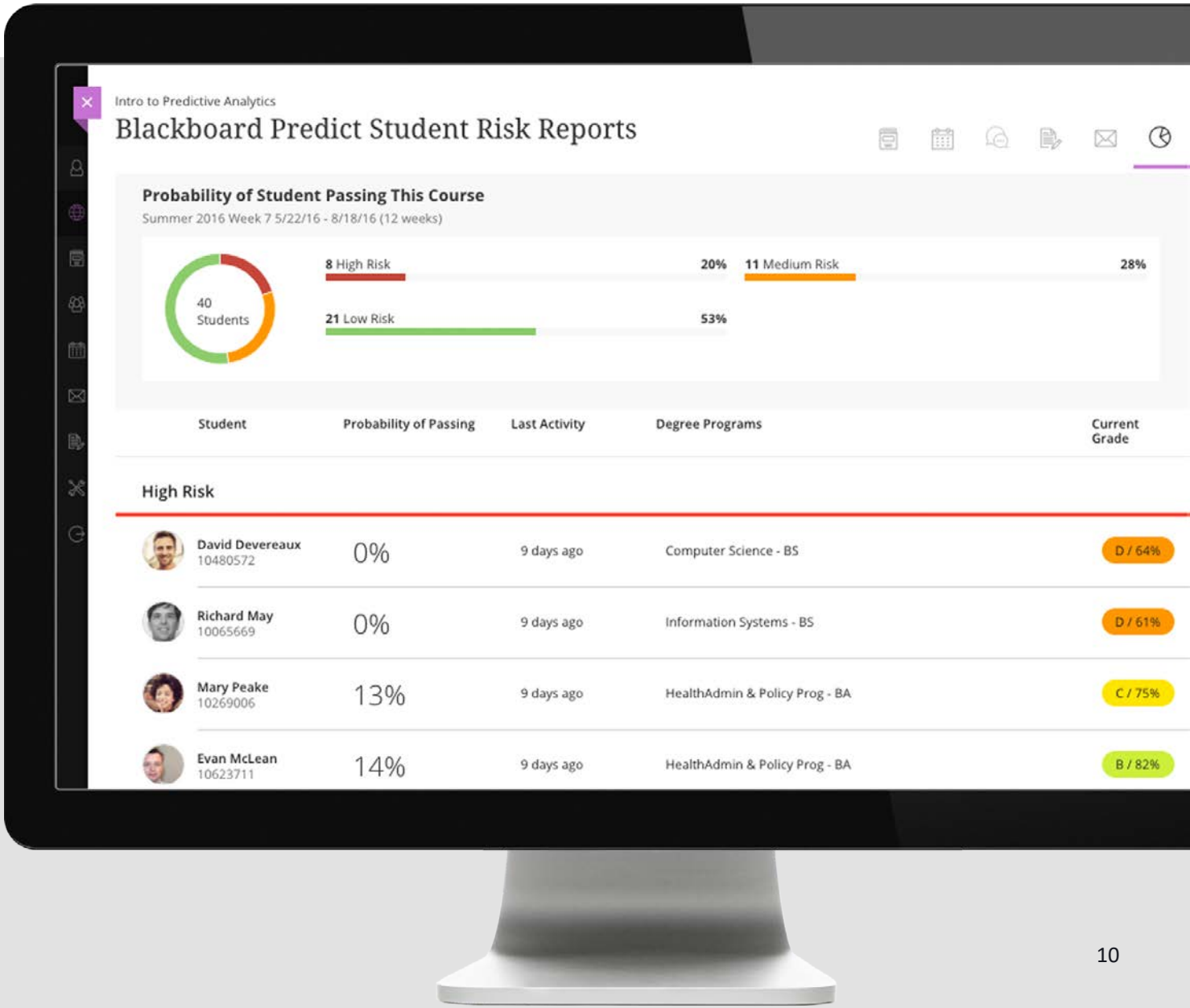


Assuming a school with 30,000 students and a starting retention rate of 55%

Blackboard Predict

What is it?

Blackboard Predict helps instructors and counsellors to identify at-risk students early so that they can intervene and keep them on track to graduate with highest possible grades and on time.

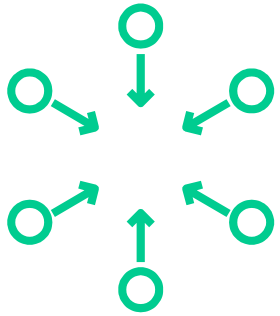


Blackboard Predict

How does it work?

Problem

What is the question you are trying to answer?

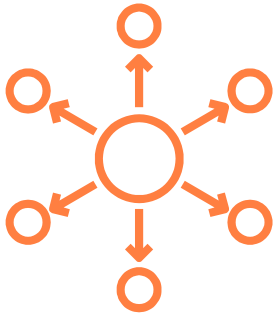


Collect Data

Aggregate the data from multiple sources

Model

Turn the data into valuable info (answer the question)

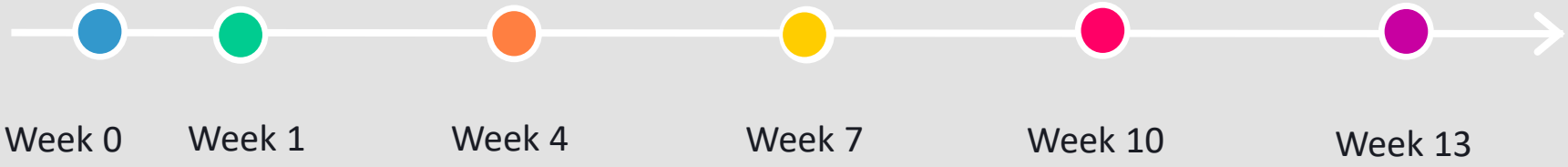


Distribute

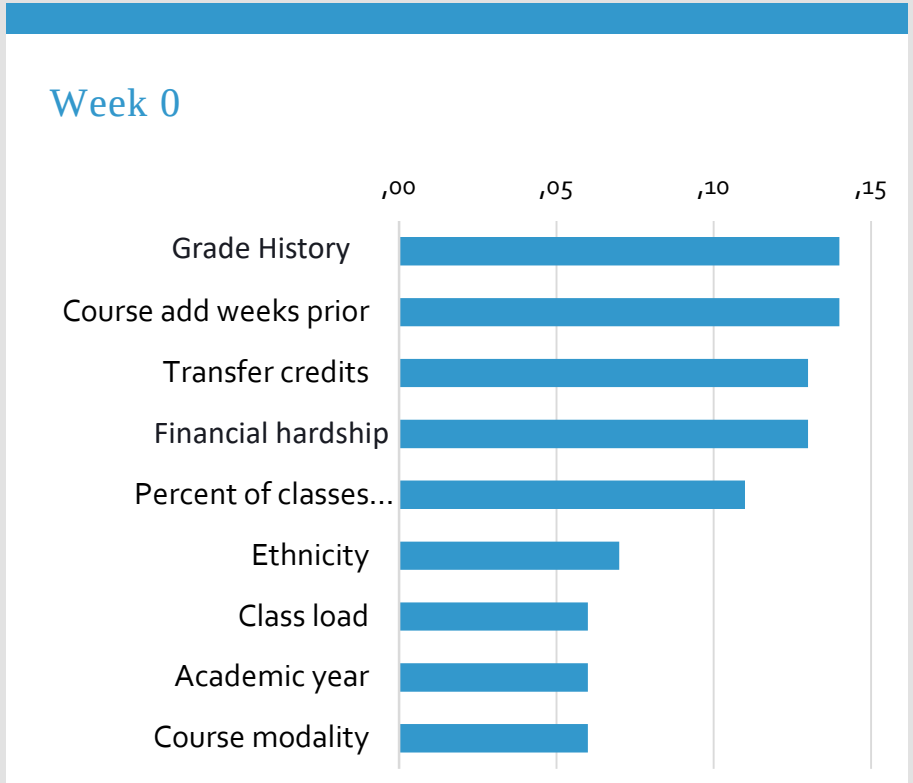
Put the valuable info in the hands of those who can act on it

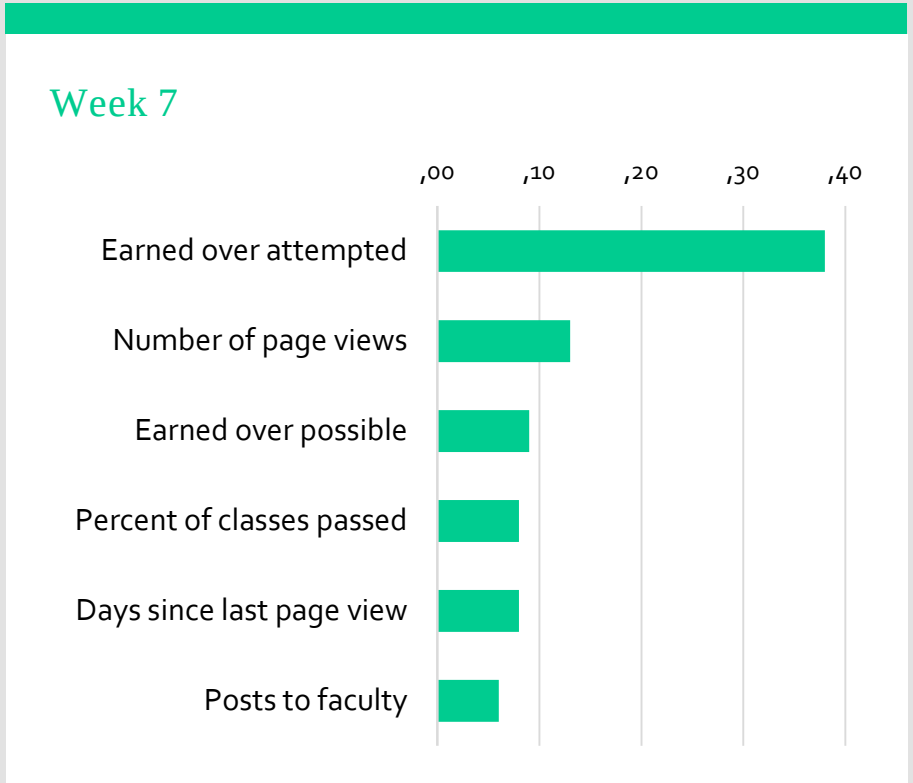
Changes over the semester

The model reflects the changing importance of data



Example

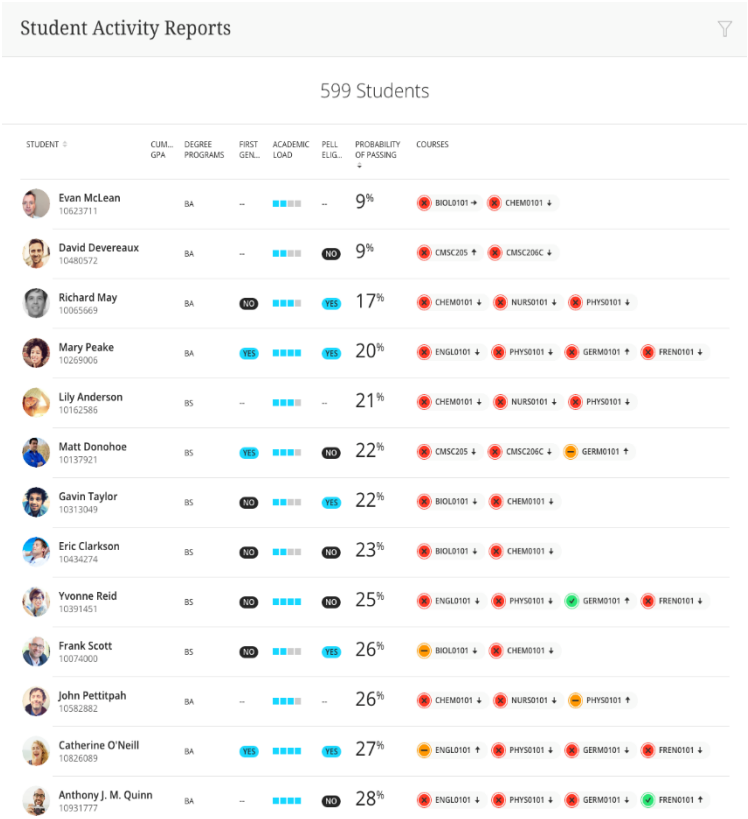




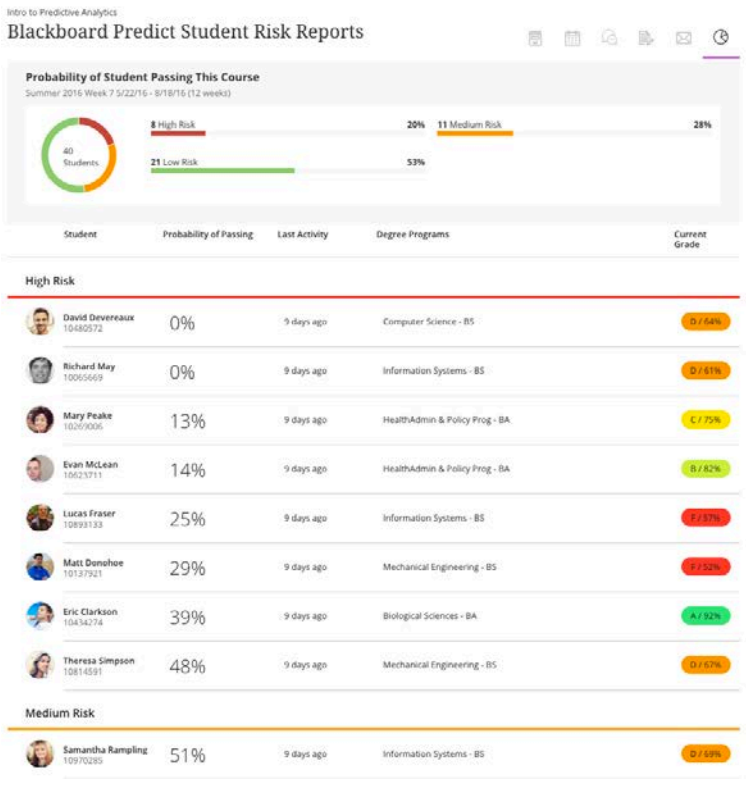
Blackboard Predict

Who intervenes? Three Views.

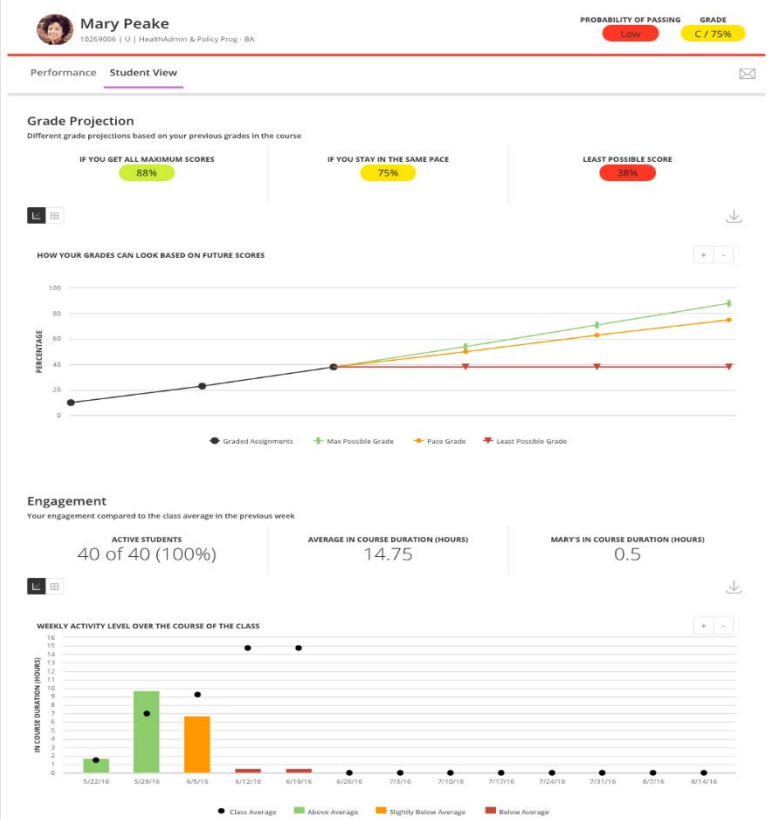
COUNSELLORS



INSTRUCTOR



STUDENT

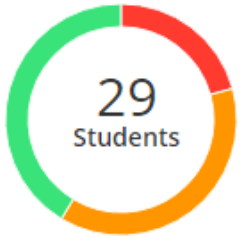


Blackboard Predict

Instructor's Dashboard

Student Risk Summary

CMSC205 - Intro to Predictive Analytics: 2/5/17 to 5/5/17 (12 week course)



6 High Risk **21%**

11 Medium Risk **38%**

12 Low Risk **41%**

High Risk Students (6)

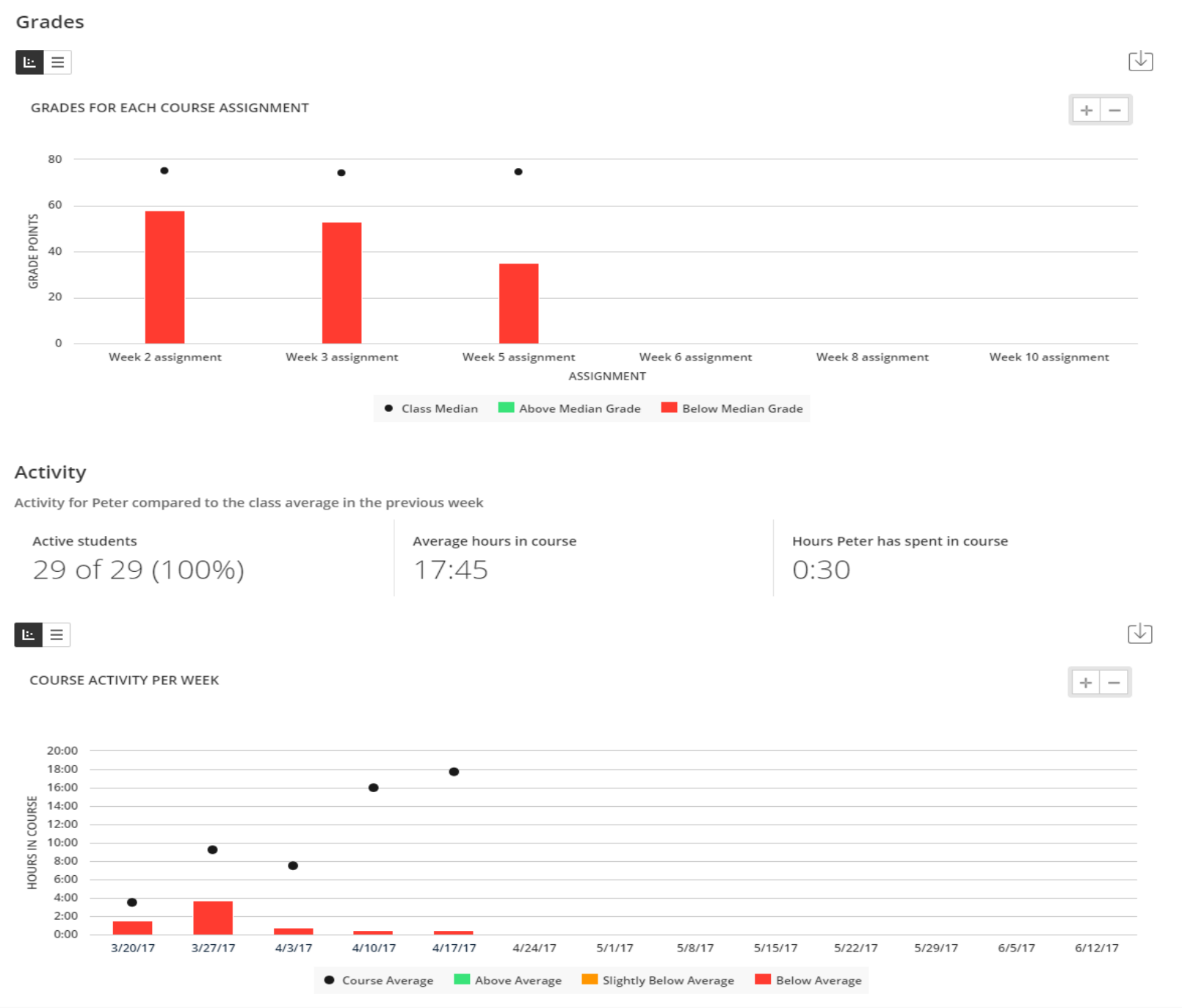
Student	Probability of Passing	Last Activity	Degree Program	Current Grade
Matt Donohoe 10477645	16 %	6 days ago	Pyschology - BA	F / 45%
Bernadette Kim 10247576	49 %	6 days ago	English - BA	C / 71%
Paul Mackenzie 10285788	28 %	6 days ago	Mathematics - BS	F / 55%

Instructor's Dashboard

Instructors can view an individual's probability of passing their course

Instructor’s Dashboard

Instructors can identify specific symptoms of risk



Counsellors' Dashboard

Counsellors can identify student segments in need of support

Understand risk factors and tailor interventions

Students

My Students (309)

Search for student by name or ID

283 Results

Terms: Current Term +2

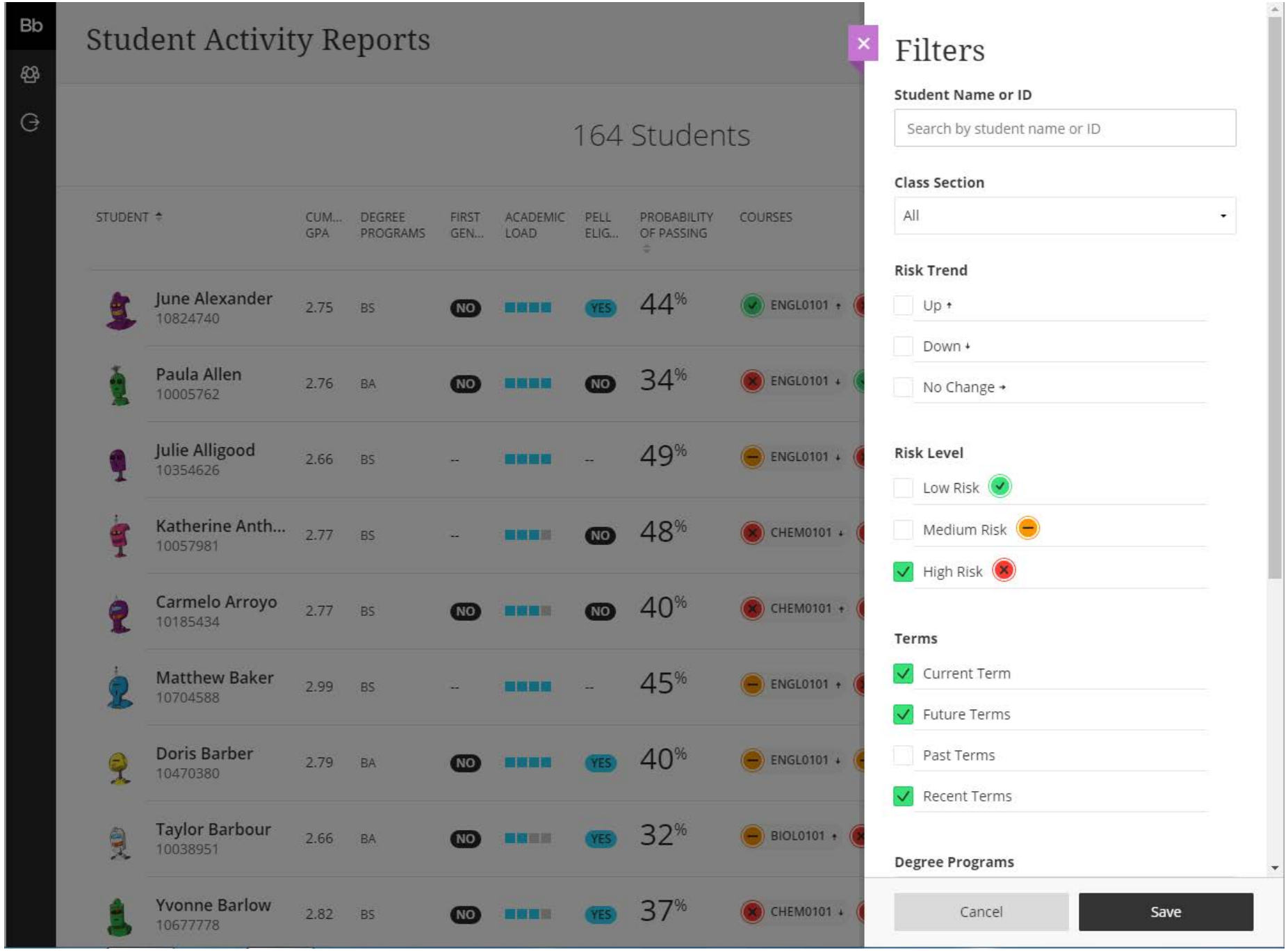
Student	Probability of Passing	Courses	Cumulative GPA
Hazel Diaz 10283312	42 %	NURS-0201 → FREN-0201 → CHEM-0201 → +1	3.67
Peter Parker 10816069	42 %	BIOL-0201 → CMSC-205 ↓ CMSC-206C ↓ +1	2.71
Jane Isham 10138240	44 %	GERM-0201 → ENGL-0201 →	2.69
Vicki Howard 10479966	45 %	ENGL-0201 → BIOL-0201 → GERM-0201 →	2.82
Brian Evans 10540310	45 %	GERM-0201 → ENGL-0201 →	2.72
Sean McClintock 10491639	46 %	GERM-0201 → CHEM-0201 → HIST-0201 → +1	2.71
Ricardo Nelson 10637468	46 %	PHYS-0201 → CHEM-0201 → HIST-0201 → +1	2.81
Francis Bell 10576793	46 %	PHYS-0201 → NURS-0201 → ENGL-0201 → +2	3.23

Blackboard Predict

Advisor Dashboard

Advisors can identify individual students by name, number, or course

And filter for students who's risk of failing is increasing



Early insights:
Texas A&M – Corpus Christi

TEXAS A&M UNIVERSITY CORPUS CHRISTI

About TAMUCC

- Public university in Texas (US) offering bachelors, master, and doctoral degrees
- 80+ programs
- Serves over 12,000 students

Challenge

- Close gaps in achievement and deliver a robust campus experience
- Proactively provide student academic and other support services to assist student success and retention efforts

Solution

Blackboard Predict pilot starting Fall semester 2017 and plan on larger roll-out in 2018.

TAMUCC began their partnership with strategic consulting services to maximize the value of their technology investment and garner best practices for improving student success strategies and goals.

Use Cases Supported by Blackboard's Analytics Solutions

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Blackboard®