Improving Pass Rates through Tutoring and Early Intervention

An efficacy analysis of The Indiana Institute of Technology and Tutor.com
2018

INSTITUTION SNAPSHOT

- Enrollment: 10,000+
- Institution Type: Private, not-for-profit, PhD-granting university
- Tutor.com Partner Since: 2016

STUDY PARAMETERS & DATA ANALYSIS

Tutor.com and Indiana Tech teamed up to complete an analysis of the effects of using Tutor.com's online tutoring service on their students' pass rates in their courses.

The Indiana Tech data set included course outcomes for 62,924 distinct student/course combinations from the 2016-2017 academic year. When matched up with Tutor.com usage data, a total of 1,325 students in 71 courses were included in the sample for the analysis.

The courses in which the highest percentage of students used Tutor.com were English, Math, Accounting, Physics, and Health Information Management.

Data points analyzed for this study included student GPA, prior credits, gender and ethnicity, individual use of Tutor.com by course and frequency, Predictive Insights Early Alerts, and course pass rates.

Overall, the average pass rate for student course combinations that had Tutor.com usage was 14.2 percentage points higher than for those that did not have Tutor.com usage. (Add'l results are provided on page 2.)

> The average pass rate [with] Tutor.com usage was **14.2 percentage points higher** than for those that did not [use] Tutor.com.

98% of Indiana Tech students surveyed during the 2017-2018 academic year said they are glad their school offers Tutor.com.

94% said that Tutor.com helped them improve their grades.

PREDICTIVE INSIGHTS™ & EARLY ALERTS

Tutor.com's Predictive Insights Data Analysis provides early, actionable data to accelerate the intervention timeline. Over the course of each personalized tutoring session, our expert tutors determine if a student lacks prerequisite knowledge or struggles to master key content. This information is then shared with faculty and administration through Early Alerts to allow for early intervention for students. Early Alerts are sent for: lack of prerequisite knowledge; difficulty mastering content; frequent use of tutoring for a specific subject; and for unusually long sessions.

The efficacy study with Indiana Tech included an analysis on student performance in correlation with generated Early Alerts, continuation of use of the tutoring service, and course pass rates.

Students who received an Early Alert within their first two Tutor.com sessions experienced a much higher course pass rate if they continued to use Tutor.com after the Alert. More remarkably, those students had a higher pass rate than the Tutor.com users who were never tagged for an Early Alert.

STUDENT COURSE COMBINATION PASS RATES

The data analysis consistently showed a positive correlation between using Tutor.com and increasing student/course combination pass rates. Below is a summary of efficacy when analyzed by cohort.

Student Cohort	Used Tutor.com	Did Not Use Tutor.com	Percentage Point Change
Indiana Tech Undergraduate	75.00%	60.80%	+14.20
ENGL Comp I Students	73.58%	49.88%	+23.71
Statistics Students	88.89%	65.50%	+23.39
Prior GPA of 0-2.0	35.45%	15.21%	+20.24
First Year Students	61.98%	30.60%	+31.38
Black, African American or Hispanic	65.55%	47.98%	+17.57

EARLY ALERTS AND INTERVENTION IMPROVE PASS RATES

Tutor.com and Indiana Tech analyzed the pass rates of students who were flagged for an Early Alert by the Tutor.com Predictive Insights system within their first two Tutor.com sessions. We compared the pass rates of the students who were flagged for an Alert and who continued using Tutor.com to those who were flagged for an Alert and who did not use Tutor.com again. We also compared these two groups to those students who did not receive an Early Alert at all. Interestingly, the students who were flagged for an Early Alert and continued using Tutor.com had a higher course pass rate than even those students who had never been flagged. ▪

Pass Rates for Students Who Used Tutor.com for at Least Two Sessions

76%
NOT FLAGGED FOR EARLY ALERT

77%
FLAGGED FOR EARLY ALERT
COMPLETED ADD'L SESSIONS

57%
FLAGGED FOR EARLY ALERT
DID NOT COMPLETE ADD'L SESSIONS

Additional study details and data are available at **www.tutor.com/indytechefficacy**.

For more information, visit **tutor.com/higher-education.**