



Online tutoring & student success: an efficacy analysis for INDIANA**TECH**

Parameters of study

- **Indiana Tech dataset included course outcomes for 62,924 distinct student/course combinations (2016-17)**
 - 10,149 distinct students across 281 distinct courses
 - Mean courses/student = 6.2
 - Median courses/student = 5
 - Modal courses/student = 2
- **Tutor.com dataset includes tutoring sessions and tutoring hours served by student/course**
 - 1,325 students had course-attributable Tutor.com usage
 - 1,952 distinct student/course combinations had Tutor.com usage (~3.10% of overall Indiana Tech dataset)

Parameters of study

- 71 courses had attributable Tutor.com usage
- Top courses for Tutor.com usage included:

mod_course_num	% of student-course combinations from IT dataset with Tutor.com usage
ENG 1250	29.93%
ENG 1100	21.31%
HIM 3000	11.11%
HIM 3400	11.11%
MA 1100	10.81%
ENG 1270	8.62%
PH 1100	7.69%
MA 2025	7.28%
ACC 1010	7.23%
PH 2100	5.88%

mod_course_num	% of student-course combinations from IT dataset with Tutor.com usage
MA 1030	5.71%
EGR 3430	5.13%
ACC 2320	5.00%
ACC 2140	4.96%
MIS 3000	4.35%
MA 1010	3.96%
MA 1025	3.71%
ECON 3140	3.70%
PSY 4200	3.57%
ACC 2300	3.23%

How to read this data:

Of all enrollees in ACC 2140, 4.96% connected with a Tutor.com tutor at least once for help with ACC 2140.

- 210 courses had no attributable Tutor.com usage, and were excluded from the study

High-level summary

- **Student/course combinations that had Tutor.com usage were 14.20 pp more likely to receive a passing grade:**
 - Pass rate for combinations w/ Tutor.com usage = 75.00%
 - Pass rate for combinations w/o tutor.com usage = 60.80%
- **Gains from TDC usage were greatest for students with lower GPAs (0.5-2) and fewer credits earned (0-75)**
- **Among TDC-using students, those with more tutoring hours were likelier to pass than those with fewer**

Breakdown by mod_course_num

mod_course_num	n of combinations within mod_course_num		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
ACC 1010	770	60	64.81%	68.33%	+3.53 pp
ACC 2140	575	30	76.70%	90.00%	+13.30 pp
ACC 2300	90	3	76.67%	33.33%	-43.33 pp
ACC 2320	76	4	90.79%	75.00%	-15.79 pp
ACC 2430	86	1	91.86%	100.00%	+8.14 pp
ACC 2440	93	1	83.87%	0.00%	-83.87 pp
ACC 2500	53	1	79.25%	0.00%	-79.25 pp
ACC 3500	59	1	94.92%	100.00%	+5.08 pp
BA 1200	3569	7	46.62%	57.14%	+10.52 pp
BA 2010	1526	4	68.68%	100.00%	+31.32 pp
BA 2200	856	1	86.92%	100.00%	+13.08 pp
BA 2410	1109	3	77.10%	100.00%	+22.90 pp
BA 2500	969	2	79.88%	100.00%	+20.12 pp
BA 2700	1117	2	76.45%	100.00%	+23.55 pp
BA 2850	870	1	78.28%	100.00%	+21.72 pp

mod_course_num	n of combinations within mod_course_num		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
BA 3200	618	1	79.29%	100.00%	+20.71 pp
BA 4910	568	1	80.81%	100.00%	+19.19 pp
BIO 1110	981	4	65.85%	100.00%	+34.15 pp
BIO 1210	178	4	75.28%	100.00%	+24.72 pp
CJ 1100	1007	1	49.95%	100.00%	+50.05 pp
CJ 1300	295	3	62.37%	100.00%	+37.63 pp
CJ 2300	178	1	71.91%	100.00%	+28.09 pp
CJ 2500	183	1	80.33%	100.00%	+19.67 pp
CJ 3300	167	1	88.02%	0.00%	-88.02 pp
CS 1250	338	3	70.12%	33.33%	-36.79 pp
ECON 2200	749	4	74.77%	75.00%	+0.23 pp
ECON 2210	598	5	82.61%	100.00%	+17.39 pp
ECON 3140	26	1	61.54%	100.00%	+38.46 pp
EGR 3430	37	2	83.78%	100.00%	+16.22 pp
ENG 1100	2762	748	29.15%	71.39%	+42.24 pp

mod_course_num	n of combinations within mod_course_num		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
PH 1100	24	2	95.83%	100.00%	+4.17 pp
PH 2100	32	2	96.88%	50.00%	-46.88 pp
PSY 1700	3270	14	41.68%	71.43%	+29.75 pp
PSY 1750	500	2	70.00%	50.00%	-20.00 pp
PSY 2000	978	3	63.09%	66.67%	+3.58 pp
PSY 2520	620	1	60.00%	100.00%	+40.00 pp
PSY 3520	120	1	79.17%	100.00%	+20.83 pp
PSY 4200	27	1	66.67%	100.00%	+33.33 pp
SCI 2000	303	3	86.14%	100.00%	+13.86 pp
SS 2720	766	3	63.19%	100.00%	+36.81 pp
SS 2800	1889	2	54.00%	50.00%	-4.00 pp

mod_course_num	n of combinations within mod_course_num		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
ENG 1250	1241	530	49.88%	73.58%	+23.71 pp
ENG 1270	1643	155	61.96%	84.52%	+22.56 pp
ENG 2320	1113	5	73.14%	100.00%	+26.86 pp
FIN 3600	546	15	81.50%	80.00%	-1.50 pp
HCA 1100	394	3	51.52%	100.00%	+48.48 pp
HIM 3000	8	1	87.50%	100.00%	+12.50 pp
HIM 3400	8	1	75.00%	100.00%	+25.00 pp
HIT 1100	255	2	65.10%	100.00%	+34.90 pp
HIT 1200	200	2	40.00%	100.00%	+60.00 pp
HIT 2000	103	1	68.93%	100.00%	+31.07 pp
HIT 2200	69	1	79.71%	100.00%	+20.29 pp
HUM 2510	268	1	81.34%	100.00%	+18.66 pp
HUM 3310	713	8	68.30%	75.00%	+6.70 pp
HUM 3710	550	1	76.91%	100.00%	+23.09 pp
IIT 1900	334	4	44.31%	100.00%	+55.69 pp

mod_course_num	n of combinations within mod_course_num		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
IS 1150	88	1	70.45%	100.00%	+29.55 pp
MA 1000	689	5	62.26%	0.00%	-62.26 pp
MA 1005	2327	36	59.65%	75.00%	+15.35 pp
MA 1010	97	4	63.92%	75.00%	+11.08 pp
MA 1020	1137	21	66.23%	76.19%	+9.96 pp
MA 1025	1789	69	62.10%	63.77%	+1.67 pp
MA 1030	132	8	82.58%	87.50%	+4.92 pp
MA 1100	33	4	75.76%	100.00%	+24.24 pp
MA 1110	32	1	71.88%	100.00%	+28.13 pp
MA 2010	217	3	81.11%	100.00%	+18.89 pp
MA 2025	1032	81	65.50%	88.89%	+23.39 pp
MIS 1300	3041	50	48.93%	84.00%	+35.07 pp
MIS 3000	22	1	36.36%	100.00%	+63.64 pp
MIS 3100	96	2	57.29%	100.00%	+42.71 pp
OL 4900	35	1	94.29%	100.00%	+5.71 pp

mod_course_num	n of overall student-course combinations		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
GRAND TOTAL	47244	1952	60.80%	75.00%	+14.20 pp

How to read this data:

In MA 1020, 1,137 enrollees did not use Tutor.com for help with MA 1020, and 21 enrollees did use Tutor.com for help with MA 1020. The non-users had a 66.23% pass rate, and the users had a 76.19% pass rate - a difference of 9.96 percentage points.

Breakdown by mod_course_num prefix

course prefix	n of combinations within course prefix		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
ACC	1802	101	73.97%	73.27%	-0.71 pp
BA	11202	22	67.57%	86.36%	+18.80 pp
BIO	1159	8	67.30%	100.00%	+32.70 pp
CJ	1830	7	60.60%	85.71%	+25.11 pp
CS	338	3	70.12%	33.33%	-36.79 pp
ECON	1373	10	77.93%	90.00%	+12.07 pp
EGR	37	2	83.78%	100.00%	+16.22 pp
ENG	6759	1438	48.17%	73.71%	+25.54 pp
FIN	546	15	81.50%	80.00%	-1.50 pp
HCA	394	3	51.52%	100.00%	+48.48 pp
HIM	16	2	81.25%	100.00%	+18.75 pp
HIT	627	6	59.33%	100.00%	+40.67 pp
HUM	1531	10	73.68%	80.00%	+6.32 pp
IIT	334	4	44.31%	100.00%	+55.69 pp
IS	88	1	70.45%	100.00%	+29.55 pp
MA	7485	232	63.49%	76.29%	+12.81 pp
MIS	3159	53	49.10%	84.91%	+35.81 pp
OL	35	1	94.29%	100.00%	+5.71 pp
PH	56	4	96.43%	75.00%	-21.43 pp
PSY	5515	22	51.04%	72.73%	+21.68 pp
SCI	303	3	86.14%	100.00%	+13.86 pp
SS	2655	5	56.65%	80.00%	+23.35 pp
Grand Total	47244	1952	60.80%	75.00%	+14.20 pp

How to read this data:

In ENG courses, 6759 enrollees did not use Tutor.com for help with their courses, and 1438 enrollees did use Tutor.com for help with their courses. The non-users had a 48.17% pass rate, and the users had a 73.71% pass rate – a difference of 25.54 percentage points.

Breakdown by prior GPA & prior credits

prior GPA	n of student/course combinations within prior GPA range		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
0-0.5	5615	65	0.57%	4.62%	+4.05 pp
0.5-1	1842	58	11.40%	31.03%	+19.63 pp
1-1.5	2816	108	22.80%	38.89%	+16.09 pp
1.5-2	3880	178	32.68%	46.07%	+13.39 pp
2-2.5	6645	270	52.10%	60.74%	+8.64 pp
2.5-3	7153	294	72.01%	75.51%	+3.50 pp
3-3.5	8220	400	88.28%	91.25%	+2.97 pp
3.5-4	11073	579	96.67%	98.10%	+1.43 pp
Grand Total	47244	1952	60.80%	75.00%	+14.20 pp

How to read this data:

Among course enrollees with a prior GPA in the 1-1.5 range, 2,816 enrollees did not use Tutor.com for help with their courses, and 108 enrollees did use Tutor.com for help with their courses. The non-users had a 22.80% pass rate, and the users had a 38.89% pass rate – a difference of 16.09 percentage points.

prior credits	n of student/course combinations within prior credits range		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
0-15	13593	605	30.60%	61.98%	+31.38 pp
15-30	6926	623	59.50%	75.44%	+15.94 pp
30-45	5523	241	66.85%	82.99%	+16.14 pp
45-60	4971	147	71.21%	86.39%	+15.18 pp
60-75	4741	99	75.95%	88.89%	+12.93 pp
75-90	3872	91	79.91%	84.62%	+4.71 pp
90-105	3335	76	82.82%	88.16%	+5.34 pp
105-120	2735	41	86.76%	90.24%	+3.48 pp
>120	1548	29	89.34%	79.31%	-10.03 pp
Grand Total	47244	1952	60.80%	75.00%	+14.20 pp

How to read this data:

Among course enrollees with 15 or fewer prior credits earned, 13,593 enrollees did not use Tutor.com for help with their courses, and 605 enrollees did use Tutor.com for help with their courses. The non-users had a 30.60% pass rate, and the users had a 61.98% pass rate – a difference of 31.38 percentage points.

Breakdown by gender & ethnicity

gender	n of student/course combinations within gender		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
F	33174	1436	59.10%	71.66%	+12.55 pp
M	14024	514	64.78%	84.24%	+19.46 pp
(blank)	46	2	73.91%	100.00%	+26.09 pp
Grand Total	47244	1952	60.80%	75.00%	+14.20 pp

How to read this data:

Among female course enrollees, 33,174 enrollees did not use Tutor.com for help with their courses, and 1,436 enrollees did use Tutor.com for help with their courses. The non-users had a 59.10% pass rate, and the users had a 71.66% pass rate – a difference of 12.55 percentage points.

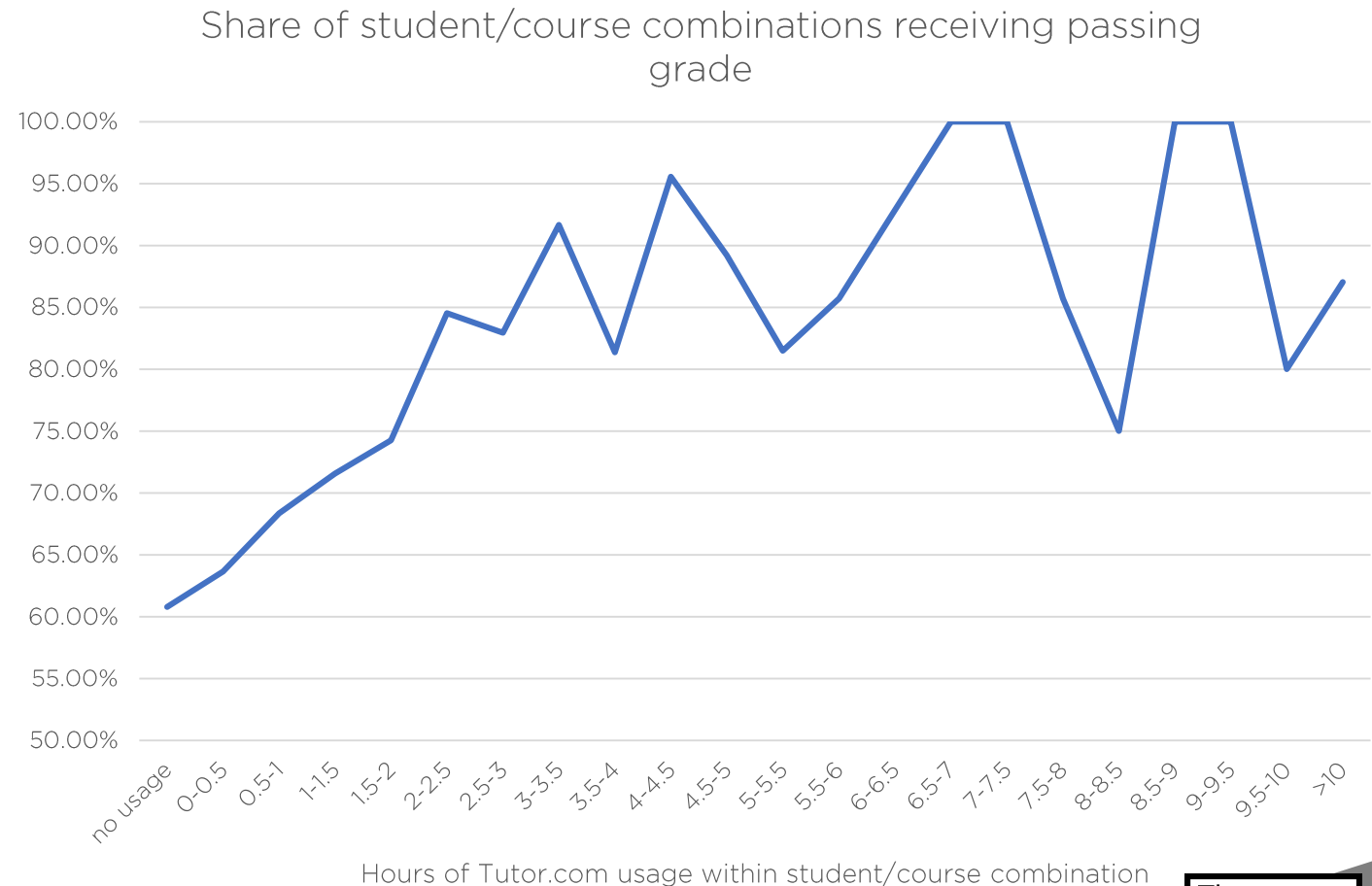
ipeds_value_desc	n of student/course combinations within ipeds_value_desc		share of combinations receiving passing grade		Δ
	Did not use TDC	Used TDC	Did not use TDC	Used TDC	
American Indian or Alaska Native	152	6	60.53%	66.67%	+6.14 pp
Asian	158	12	81.65%	91.67%	+10.02 pp
Black or African American	19839	827	46.21%	63.97%	+17.76 pp
Hispanics of any race	1791	67	67.62%	85.07%	+17.46 pp
IPEDs value not calculated	24	3	79.17%	66.67%	-12.50 pp
Native Hawaiian or Other Pacific Islander	62	1	79.03%	100.00%	+20.97 pp
Nonresident Alien	89	6	79.78%	100.00%	+20.22 pp
Race and Ethnicity unknown	1457	41	58.48%	80.49%	+22.01 pp
Two or more races	1318	48	61.53%	70.83%	+9.30 pp
White	15649	724	76.64%	88.40%	+11.76 pp
(blank)	6705	217	64.61%	67.74%	+3.13 pp
Grand Total	47244	1952	60.80%	75.00%	+14.20 pp

How to read this data:

Among Black or African-American course enrollees, 19,839 enrollees did not use Tutor.com for help with their courses, and 827 enrollees did use Tutor.com for help with their courses. The non-users had a 46.21% pass rate, and the users had a 63.97% pass rate – a difference of 17.76 percentage points.

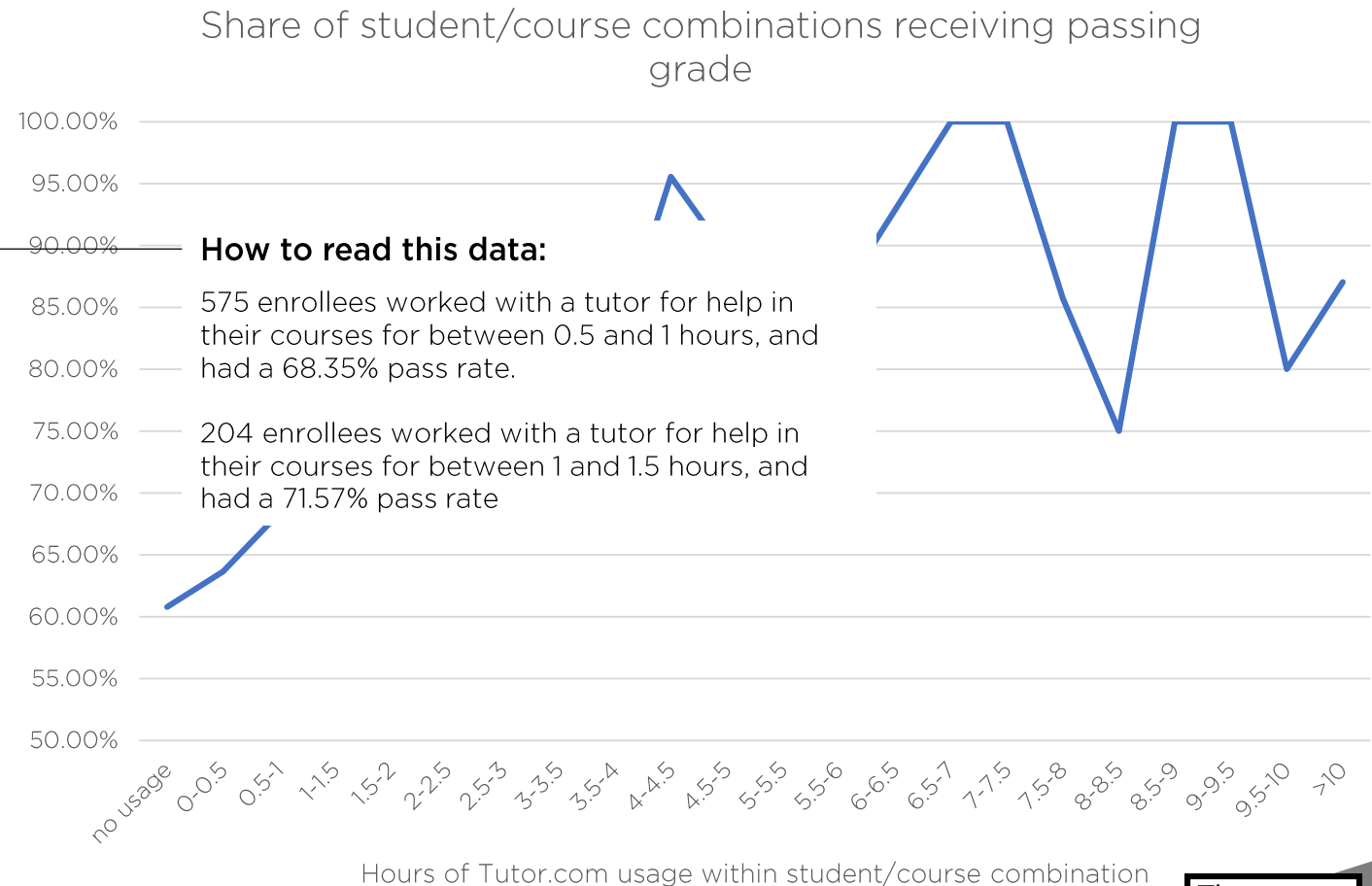
Marginal impact of ongoing usage

Hours of Tutor.com usage within course	n of student/course combinations	Share of combinations receiving passing grade
no usage	47244	60.80%
0-0.5	300	63.67%
0.5-1	575	68.35%
1-1.5	204	71.57%
1.5-2	202	74.26%
2-2.5	168	84.52%
2.5-3	88	82.95%
3-3.5	108	91.67%
3.5-4	59	81.36%
4-4.5	45	95.56%
4.5-5	37	89.19%
5-5.5	27	81.48%
5.5-6	14	85.71%
6-6.5	14	92.86%
6.5-7	11	100.00%
7-7.5	7	100.00%
7.5-8	7	85.71%
8-8.5	12	75.00%
8.5-9	11	100.00%
9-9.5	4	100.00%
9.5-10	5	80.00%
>10	54	87.04%



Marginal impact of ongoing usage

Hours of Tutor.com usage within course	n of student/course combinations	Share of combinations receiving passing grade
no usage	47244	60.80%
0-0.5	300	63.67%
0.5-1	575	68.35%
1-1.5	204	71.57%
1.5-2	202	74.26%
2-2.5	168	84.52%
2.5-3	88	82.95%
3-3.5	108	91.67%
3.5-4	59	81.36%
4-4.5	45	95.56%
4.5-5	37	89.19%
5-5.5	27	81.48%
5.5-6	14	85.71%
6-6.5	14	92.86%
6.5-7	11	100.00%
7-7.5	7	100.00%
7.5-8	7	85.71%
8-8.5	12	75.00%
8.5-9	11	100.00%
9-9.5	4	100.00%
9.5-10	5	80.00%
>10	54	87.04%



Pass rate by usage level & prior GPA/credits

		PRIOR GPA								Grand Total
		0-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4	
TUTOR.COM HOURS WITHIN STUDENT /COURSE COMBO	no usage	0.57%	11.40%	22.80%	32.68%	52.10%	72.01%	88.28%	96.67%	60.80%
	0-0.5	3.45%	23.08%	56.67%	41.86%	56.41%	74.42%	92.50%	96.83%	63.67%
	0.5-1	0.00%	27.59%	30.56%	40.32%	58.24%	71.95%	87.85%	96.62%	68.35%
	1-1.5	0.00%	25.00%	16.67%	56.52%	54.84%	65.63%	87.50%	100.00%	71.57%
	1.5-2	14.29%	25.00%	30.00%	35.71%	61.11%	68.00%	94.34%	96.23%	74.26%
	2-2.5	0.00%	100.00%	25.00%	50.00%	69.23%	77.42%	95.35%	98.15%	84.52%
	2.5-3	100.00%	0.00%	66.67%	83.33%	42.86%	81.25%	93.33%	100.00%	82.95%
	3-3.5	0.00%	0.00%	50.00%	100.00%	100.00%	81.25%	89.29%	100.00%	91.67%
	3.5-4	0.00%	100.00%	0.00%	33.33%	40.00%	100.00%	100.00%	96.43%	81.36%
	4-4.5		100.00%	66.67%	100.00%	100.00%	100.00%	85.71%	100.00%	95.56%
	4.5-5			100.00%	50.00%	50.00%	75.00%	92.31%	100.00%	89.19%
	5-5.5		0.00%	0.00%	50.00%	66.67%	75.00%	100.00%	100.00%	81.48%
	5.5-6				0.00%		100.00%	75.00%	100.00%	85.71%
	6-6.5				100.00%	50.00%	100.00%	100.00%	100.00%	92.86%
	6.5-7		100.00%	100.00%			100.00%	100.00%	100.00%	100.00%
	7-7.5			100.00%		100.00%		100.00%	100.00%	100.00%
	7.5-8					100.00%	66.67%	100.00%	100.00%	85.71%
	8-8.5				33.33%		75.00%	100.00%	100.00%	75.00%
	8.5-9		100.00%			100.00%		100.00%	100.00%	100.00%
	9-9.5						100.00%	100.00%	100.00%	100.00%
9.5-10				0.00%			100.00%	100.00%	80.00%	
>10				0.00%	83.33%	80.00%	87.50%	100.00%	87.04%	
Grand Total		0.62%	12.00%	23.39%	33.27%	52.44%	72.15%	88.42%	96.74%	61.37%

		PRIOR CREDITS									Grand Total
		0-15	15-30	30-45	45-60	60-75	75-90	90-105	105-120	>120	
TUTOR.COM HOURS WITHIN STUDENT /COURSE COMBO	no usage	30.60%	59.50%	66.85%	71.21%	75.95%	79.91%	82.82%	86.76%	89.34%	60.80%
	0-0.5	46.61%	61.19%	90.00%	65.38%	93.33%	71.43%	83.33%	100.00%	87.50%	63.67%
	0.5-1	58.80%	70.39%	76.06%	90.00%	73.33%	75.00%	87.50%	100.00%	66.67%	68.35%
	1-1.5	63.64%	67.21%	80.65%	83.33%	92.31%	83.33%	75.00%	66.67%		71.57%
	1.5-2	69.23%	68.35%	82.61%	83.33%	90.91%	100.00%	100.00%	100.00%	100.00%	74.26%
	2-2.5	70.59%	87.14%	87.50%	94.12%	100.00%	88.89%	100.00%	75.00%	50.00%	84.52%
	2.5-3	78.95%	75.00%	83.33%	88.89%	100.00%	100.00%	100.00%	100.00%	100.00%	82.95%
	3-3.5	89.47%	92.11%	94.12%	91.67%	90.91%	100.00%	100.00%	100.00%	50.00%	91.67%
	3.5-4	50.00%	88.46%	100.00%	80.00%	66.67%	100.00%	50.00%	100.00%	100.00%	81.36%
	4-4.5	100.00%	93.33%	100.00%	100.00%	100.00%	100.00%	100.00%		0.00%	95.56%
	4.5-5	80.00%	87.50%	100.00%	100.00%	100.00%	100.00%	100.00%		100.00%	89.19%
	5-5.5	66.67%	80.00%	66.67%	100.00%	50.00%	100.00%		100.00%		81.48%
	5.5-6	100.00%	100.00%	66.67%	75.00%		100.00%		100.00%		85.71%
	6-6.5	100.00%	75.00%		100.00%		100.00%	100.00%	100.00%		92.86%
	6.5-7	100.00%	100.00%	100.00%				100.00%			100.00%
	7-7.5	100.00%	100.00%		100.00%		100.00%		100.00%		100.00%
	7.5-8	100.00%	100.00%		100.00%	50.00%					85.71%
	8-8.5	33.33%	100.00%	0.00%	100.00%	100.00%	100.00%	100.00%			75.00%
	8.5-9		100.00%	100.00%	100.00%			100.00%	100.00%		100.00%
	9-9.5	100.00%	100.00%		100.00%				100.00%		100.00%
9.5-10	0.00%	100.00%	100.00%	100.00%	100.00%					80.00%	
>10	100.00%	100.00%	50.00%	100.00%	100.00%	71.43%	85.71%	50.00%	100.00%	87.04%	
Grand Total		31.94%	60.82%	67.52%	71.65%	76.22%	80.02%	82.94%	86.82%	89.16%	61.37%

Pass rate by usage level & prior GPA/credits

		PRIOR GPA								Grand Total
		0-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4	
TUTOR.COM HOURS WITHIN STUDENT /COURSE COMBO	no usage	0.57%	11.40%	22.80%	32.68%					
	0-0.5	3.45%	23.08%	56.67%	41.86%					
	0.5-1	0.00%	27.59%	30.56%	40.32%					
	1-1.5	0.00%	25.00%	16.67%	56.52%					
	1.5-2	14.29%	25.00%	30.00%	35.71%					
	2-2.5	0.00%	100.00%	25.00%	50.00%					
	2.5-3	100.00%	0.00%	66.67%	83.33%					
	3-3.5	0.00%	0.00%	50.00%	100.00%	100.00%	81.25%	89.29%	100.00%	91.67%
	3.5-4	0.00%	100.00%	0.00%	33.33%	40.00%	100.00%	100.00%	96.43%	81.36%
	4-4.5		100.00%	66.67%	100.00%	100.00%	100.00%	85.71%	100.00%	95.56%
	4.5-5			100.00%	50.00%	50.00%	75.00%	92.31%	100.00%	89.19%
	5-5.5		0.00%	0.00%	50.00%	66.67%	75.00%	100.00%	100.00%	81.48%
	5.5-6				0.00%		100.00%	75.00%	100.00%	85.71%
	6-6.5				100.00%	50.00%	100.00%	100.00%	100.00%	92.86%
	6.5-7		100.00%	100.00%			100.00%	100.00%	100.00%	100.00%
	7-7.5			100.00%		100.00%		100.00%	100.00%	100.00%
	7.5-8					100.00%	66.67%	100.00%	100.00%	85.71%
	8-8.5				33.33%		75.00%	100.00%	100.00%	75.00%
	8.5-9		100.00%			100.00%		100.00%	100.00%	100.00%
	9-9.5						100.00%	100.00%	100.00%	100.00%
9.5-10				0.00%			100.00%	100.00%	80.00%	
>10				0.00%	83.33%	80.00%	87.50%	100.00%	87.04%	
Grand Total		0.62%	12.00%	23.39%	33.27%	52.44%	72.15%	88.42%	96.74%	61.37%

How to read this data:

Among enrollees with prior GPAs in the 1-1.5 range, those with no Tutor.com usage had a 22.80% pass rate. Those who worked with a tutor for help in their courses for 0-0.5 hours had a 56.67% pass rate.

		PRIOR CREDITS									Grand Total
		0-15	15-30	30-45	45-60	60-75	75-90	90-105	105-120	>120	
TUTOR.COM HOURS WITHIN STUDENT /COURSE COMBO	no usage	30.60%	59.50%	66.85%	71.21%	75.95%	79.91%	82.82%	86.76%	89.34%	60.80%
	0-0.5	46.61%	61.19%	90.00%	65.38%	93.33%	71.43%	83.33%	100.00%	87.50%	63.67%
	0.5-1	58.80%	70.39%	76.06%	90.00%	73.33%	75.00%	87.50%	100.00%	66.67%	68.35%
	1-1.5	63.64%	67.21%	80.65%	83.33%	92.31%	83.33%	75.00%	66.67%		71.57%
	1.5-2	69.23%	68.35%	82.61%							
	2-2.5	70.59%	87.14%	87.50%							
	2.5-3	78.95%	75.00%	83.33%							
	3-3.5	89.47%	92.11%	94.12%							
	3.5-4	50.00%	88.46%	100.00%							
	4-4.5	100.00%	93.33%	100.00%							
	4.5-5	80.00%	87.50%	100.00%							
	5-5.5	66.67%	80.00%	66.67%	100.00%	50.00%	100.00%		100.00%		81.48%
	5.5-6	100.00%	100.00%	66.67%	75.00%		100.00%		100.00%		85.71%
	6-6.5	100.00%	75.00%		100.00%		100.00%	100.00%	100.00%		92.86%
	6.5-7	100.00%	100.00%	100.00%				100.00%			100.00%
	7-7.5	100.00%	100.00%		100.00%		100.00%		100.00%		100.00%
	7.5-8	100.00%	100.00%		100.00%	50.00%					85.71%
	8-8.5	33.33%	100.00%	0.00%	100.00%	100.00%	100.00%	100.00%			75.00%
	8.5-9		100.00%	100.00%	100.00%			100.00%	100.00%		100.00%
	9-9.5	100.00%	100.00%		100.00%				100.00%		100.00%
9.5-10	0.00%	100.00%	100.00%	100.00%	100.00%					80.00%	
>10	100.00%	100.00%	50.00%	100.00%	100.00%	71.43%	85.71%	50.00%	100.00%	87.04%	
Grand Total		31.94%	60.82%	67.52%	71.65%	76.22%	80.02%	82.94%	86.82%	89.16%	61.37%

How to read this data:

Among enrollees with prior credits in the 15-30 range, those who worked with a tutor for help in their courses for 1.5-2 hours had a 68.35% pass rate. Those who worked with a tutor for help in their courses for 2-2.5 hours had an 87.14% pass rate.

Predictive power of Early Alert notifications

Student population	n of student/course combinations	share of combinations receiving passing grade
Did not use Tutor.com	47244	60.80%
Used Tutor.com	1952	75.00%
Did not receive Early Alert in first two sessions*	1813	75.57%
Received Early Alert in first two sessions*	139	67.63%
Did not have additional sessions for same course (after first two)	68	57.35%
Had additional sessions for same course (after first two)	71	77.46%

How to read this data:

47,244 enrollees did not use Tutor.com for help in their courses, and had a 60.80% pass rate. 1,952 enrollees did use Tutor.com for help in their courses, and had a 75.00% pass rate.

Within the “Used Tutor.com” population, 1,813 enrollees did not receive an Early Alert (indicating a lack of prerequisite knowledge or content mastery) in their first two live tutoring sessions; these enrollees had a 75.57% pass rate. 139 enrollees did receive an Early Alert in their first two sessions; these enrollees had a 67.63% pass rate.

Within the “Received Early Alert in first two sessions” population, 68 enrollees had no additional tutoring sessions after the first two, and had a 57.35% pass rate. 71 enrollees had at least one additional tutoring session, and had a 77.46% pass rate.

*Excluding asynchronous essay reviews, which are not included in the Tutor.com Early Alert system